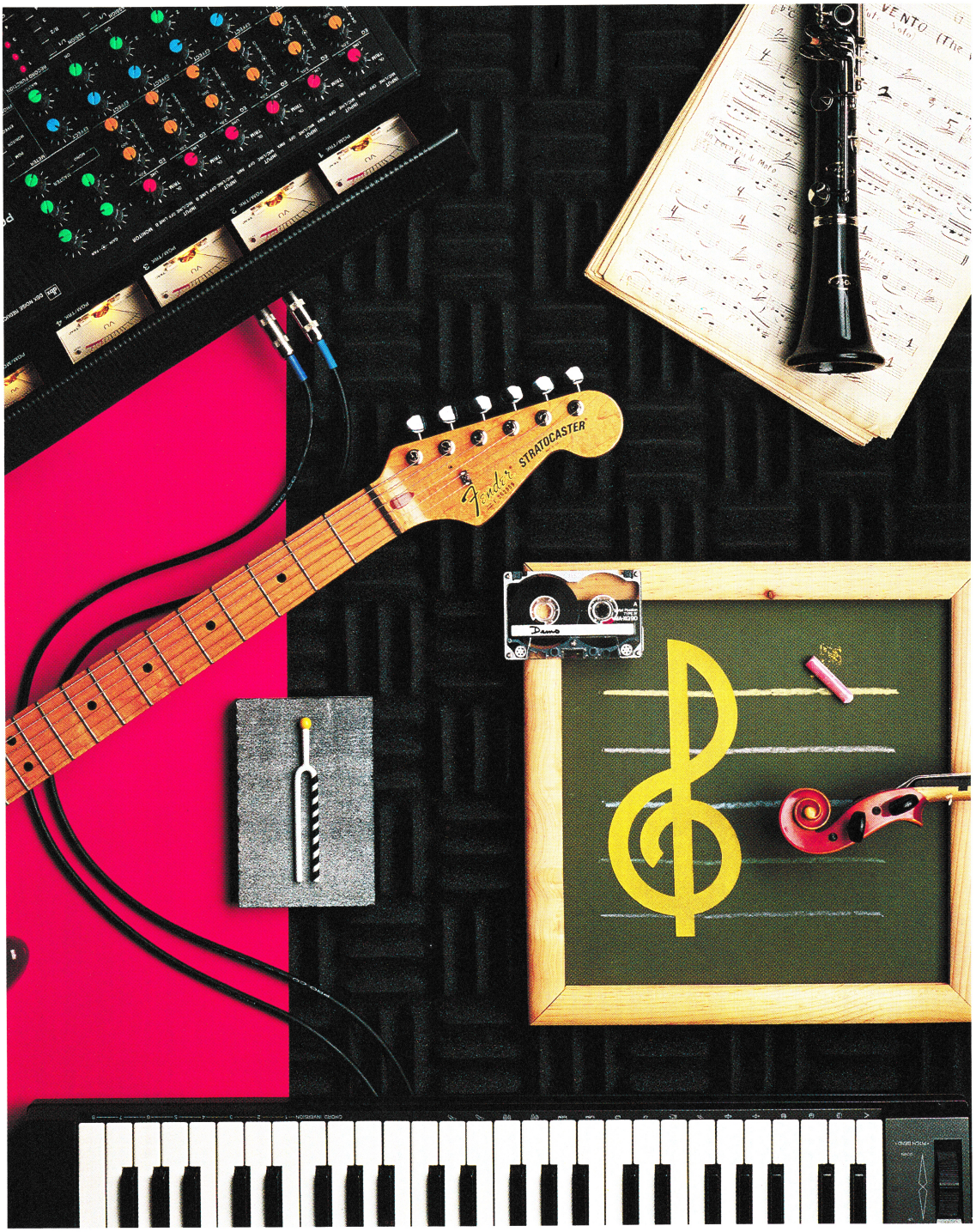
Apple Music Products Guide



Spring 1988

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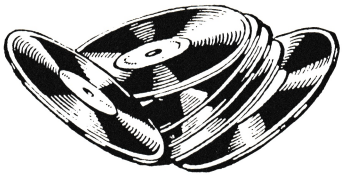

Apple Computer, Inc.

The publication of the first edition of the Apple Music Products Guide has been the result of substantial effort from many individuals. The guide was co-developed by Apple Computer, Inc.'s Consumer Marketing and Third Party Marketing groups and the publisher, Redgate Communications Corporation. We extend our thanks to the following people:

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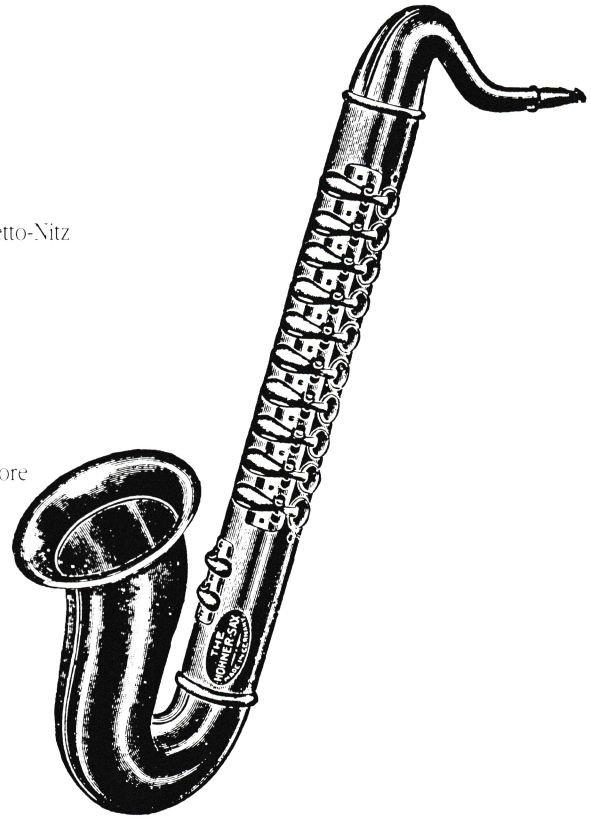

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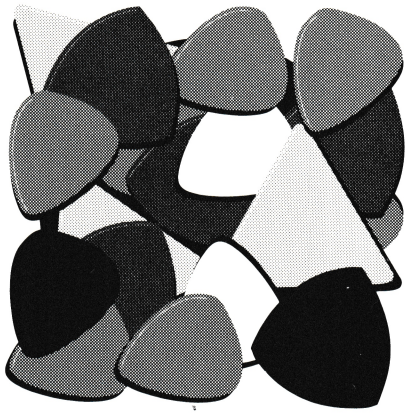


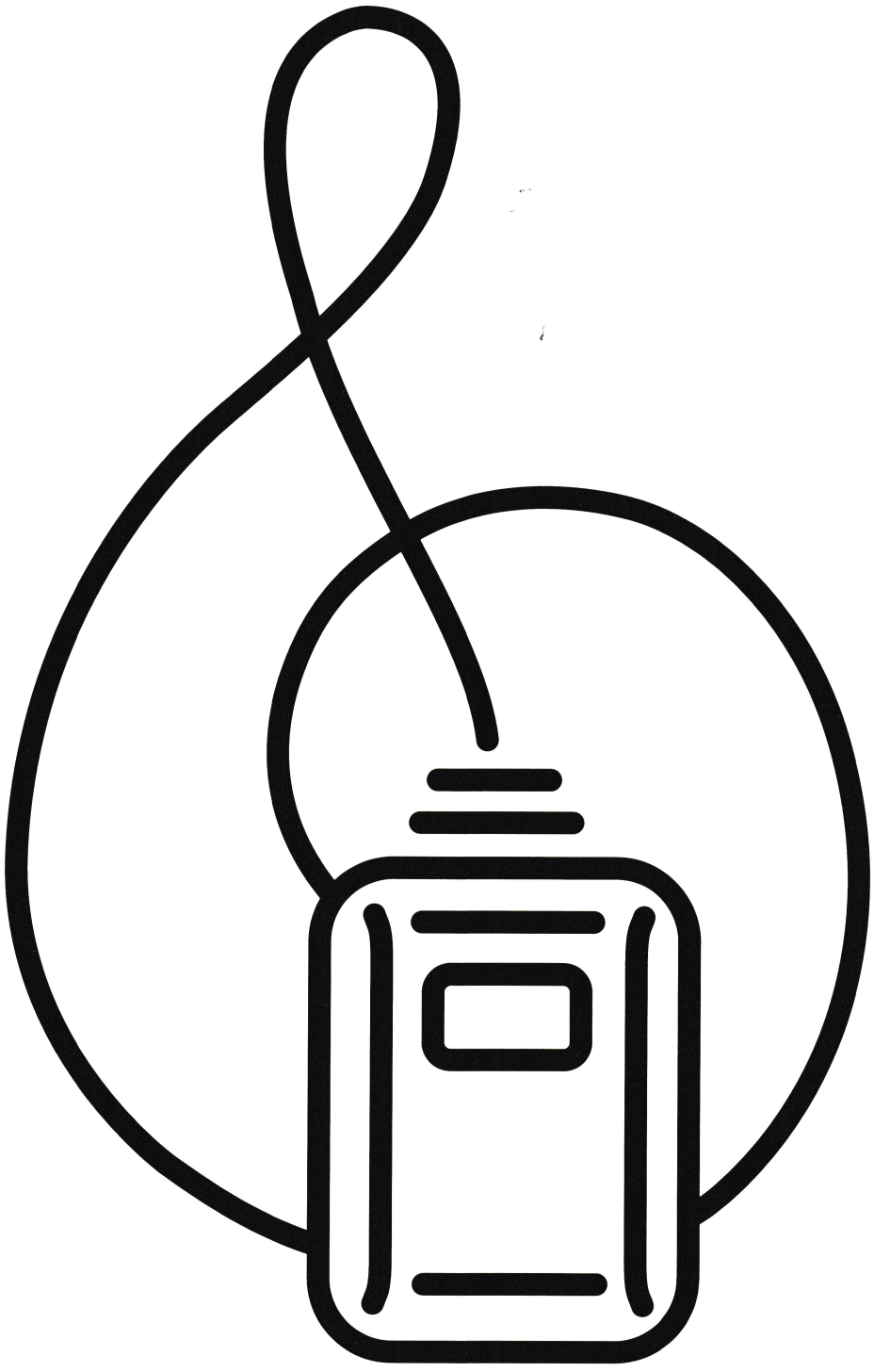
Computer technology is having a major impact on the entire music industry — from the way music is written, performed and recorded to the way acoustic and synthesized sounds are captured, manipulated and reproduced. Computers are used today by people in every aspect of the music business, from composers, performers, arrangers, and sound and special effects designers to instructors at schools across the country. And computers are being used in all varieties of music — pop, rock, jazz, new age, classical and experimental pieces. Music created with the assistance of computers no longer has to sound "computerized" or mechanical. Recent advances in software and hardware technologies give amateur and professional musicians the ability to realize their own musical potential.

Many of the same technologies tapped by the professional musician are now available to the average consumer. This includes enthusiasts who have become more interested in music through the high fidelity of new recording technologies, such as compact discs. Others always had an interest in music, but for some reason or another did not pursue it as an active hobby or avocation. With computers, low-cost synthesizers and music software, this group of adults and their children can now explore their own musical potential.

The key to this explosion in music has been the development of the computer's ability to connect and exchange information with various electronic instruments through a standard called MIDI (Musical Instrument Digital Interface). The MIDI standard, which was first released in August 1983, arose from musicians' interests in methods of triggering sounds from other synthesizers using a master keyboard. Computer users quickly recognized the potential of MIDI. Thanks to special MIDI software, personal computers can be used as sophisticated control devices for capturing and sending performance information to a variety of instruments.

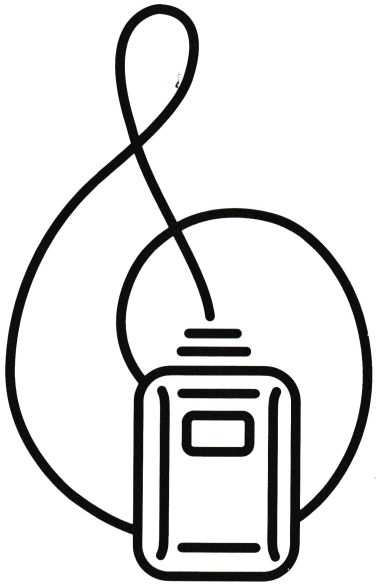
Apple has achieved a leadership position in the music market, serving the professional and amateur musician as well as the music student. A Macintosh or Apple IIGS equipped with music software, a MIDI interface and MIDI-equipped instruments provides musicians with more creative control over their work than ever before. While these computer systems cannot transform a beginner into an advanced player, they allow musicians at any level to get the most from their music.

The products on the following pages offer some of the most inventive and powerful ways for people to explore whatever musical genius lies within them.



Macintosh

The Macintosh is one of the leading computers used by professional and serious amateur musicians. It has become an indispensable piece of equipment in diverse areas: from home four-track studios to the most sophisticated, automated 48-track systems; in live performances and rehearsal studios; and in music labs in universities and major schools of music.



Sound Editors & Librarians

In the past, musicians had two methods of storing sounds for their synthesizers: inside the instrument itself or on cartridges that are inserted into the synthesizer to download new sounds. Once inside the synthesizer, these sounds could be changed or edited by the musician. But a musician could only change the parameters of the sound patch (such as attack, sustain, decay or release) by using cursor keys to edit numeric values displayed in small, lit windows on the instrument.

For many musicians, who today have a variety of instruments with hundreds of sounds from different manufacturers and need to easily customize sounds, the older methods can sometimes be limiting.

With editor/librarian software, musicians can now store sounds on more accessible 800K disks or hard disks for much less money. And they can review the entire library of sounds for an instrument without having to insert and load sound cartridges. Sounds that are displayed on the computer's screen as two-dimensional graphics are also far easier to manipulate.

D-50 Design

The D-50 Design allows an individual to create, edit and save sounds on diskette cartridges. The program provides the ability to make custom cartridges and store several in memory. Other features include full programmer librarian functions, the ability to play the D-550 from the computer and the display of graphic representations of envelopes that can be moved manually. Full banks or individual patches can be received or sent, and a captive play-through command allows an individual to use the master keyboard to the D-550 via the computer.

Sonus Corp.
21430 Strathern St., Ste. H
Canoga Park, CA 91304
818-702-0992

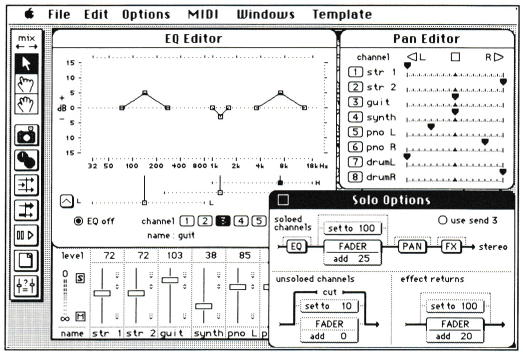
System Requirements
512K or larger Macintosh; Roland D-50 or D-550 synthesizer; MIDI interface.

Price
Not yet determined.

Support
Technical support is available.

Uses MIDI
Yes

DMP7 PRO



DMP7 PRO is an editor, librarian and intelligent real-time controller designed specifically for use with the Yamaha DMP7 digital mixer. The software provides a complete view of the mixer and the capability to organize and store the mixer's internal settings to disk. The program includes editors for tuning EQs, adjusting pan and level settings, and programming the mixer's three built-in effects processors. The mixer's front panel and effects processor settings can be printed. The program permits the Macintosh mouse to control the mixer's functions, such as selecting and manipulating parameters.

Digital Music Service
23010 Lake Forest Dr., Ste. D334
Laguna Hills, CA 92653
714-951-1159

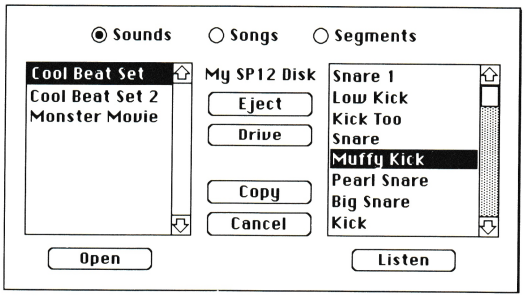
System Requirements
Any Macintosh; Plus or higher recommended.

Price $395

Support
Technical support is provided Monday through Friday.

Uses MIDI
Yes

Drum File



Drum File is a complete sound/song management package for the E-mu SP-12 sampling drum machine. Designed with a professional SP-12 user in mind, it features fast data transfers, sound libraries, sound/song editing, sound data conversion and more.

Blank Software
1477 Folsom St.
San Francisco, CA 94103
415-863-9224

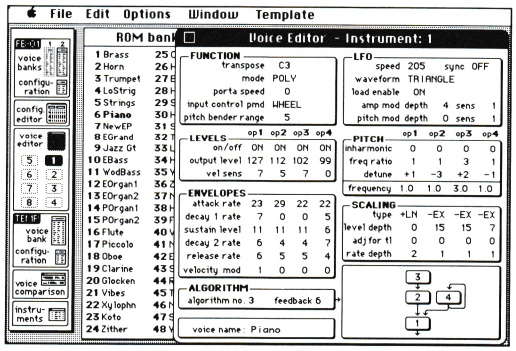
System Requirements
512K or larger Macintosh; SE or II; E-mu SP-12 drum machine.

Price $295

Support
Technical support and free updates are provided.

Uses MIDI
Yes

FB PRO and TX81Z PRO



FB PRO is an editing, voicing and librarian software package designed specifically for use with the Yamaha FB-01 synthesizer. The program allows editing and modification of the FB-01's internal voices, the creation of additional voices and playing of the synthesizer from a Macintosh or MIDI keyboard. The software features a library of voices and enough capacity for creating libraries of 200 voices or performances. Voices can be stored and configured to a disk, alphabetized, copied and pasted. Voice configuration and catalogs of banks can be printed. Data can be manipulated by the Macintosh mouse or keyboard. TX81Z PRO is an editor and librarian designed specifically for the Yamaha TX81Z synthesizer. The software package allows the synthesizer's functions to be displayed on the Macintosh screen and manipulated with a mouse. With TX81Z PRO, the synthesizer can be played through a Macintosh or MIDI keyboard. The software allows copying and pasting of data, printing of catalogs and data, alphabetizing and removal of duplicate voices and performances, and microtonal and utility editing. TX81Z PRO provides an additional 32 microtuning banks, 24 utility banks of memory and a voice data disk with new voices for the TX81Z.

Digital Music Services
23010 Lake Forest Dr., Ste. D334
Laguna Hills, CA 92653
714-951-1159

System Requirements
512K or larger Macintosh.

Price $129 to $139
A demonstration disk is available from the company for $5, which can be applied toward the purchase price. Free demonstration disks are available from dealers.

Support
Technical support is provided Monday through Friday.

Uses MIDI
Yes

FX Designer

FX Designer Version 1.0 is a visual editor for the Lexicon PCM 70 digital effects processor. The program produces clean and easy-to-understand graphic representations of digital effects, making PCM editing both faster and more intuitive. Complete MIDI patching capabilities provide ease in controlling every aspect of PCM 70 effects using external MIDI controllers. Other features include banks of user-created effects that can be saved to disk and the ability to tie in directly to the Opcode PCM 70 Librarian.

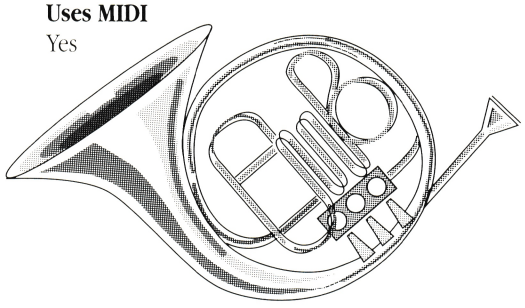
Digidesign, Inc.
1360 Willow Rd., Ste. 101
Menlo Park, CA 94025
415-327-8811

System Requirements
512K or larger Macintosh; Lexicon PCM digital effects processor; MIDI interface.

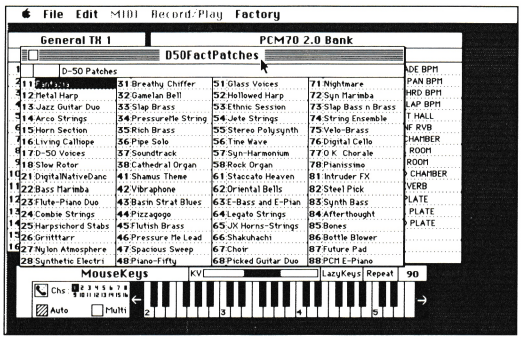
Price $195

Support
Free customer support is provided for registered owners.

Uses MIDI
Yes



Librarians with Patch Factory



Opcode Patch Librarians allow a Macintosh user to store thousands of synthesizer patches on disk. They take the place of expensive RAM cartridges and make using inconvenient cassette storage of sounds obsolete. Opcode Patch Librarians let a user see and edit the names of all the sounds in a bank of patches simultaneously, even with synthesizers that do not have names for their patches. A user can work with eight banks of sounds simultaneously and make libraries, which can include any number of sounds alphabetized by name. Patches can be moved easily from one file to another by dragging them with the mouse. Patches can be sampled using the master keyboard, MouseKeys or the built-in example sequencer. Synthesizers currently supported by Opcode Patch Librarians include: Yamaha DX/TX/TX816/Bulk + DX7 II, Yamaha TX81Z + DX21/27/100, Oberheim Matrix 6/6R, Oberheim Xpander/ Matrix 12, Oberheim OB-8, Casio CZ series/RZ-1 drum samples, Ensoniq ESQ-1, Lexicon PCM-70, Kawai K3, Roland D-50, Roland Super Jupiter, Roland Jx-8P, Roland Juno 106, Roland Alpha Juno 1 & 2, Fender Polaris, Fender Chroma, Korg DW 8000/EX 8000, Prophet VS, Linn Drum (no Patch Factory).

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

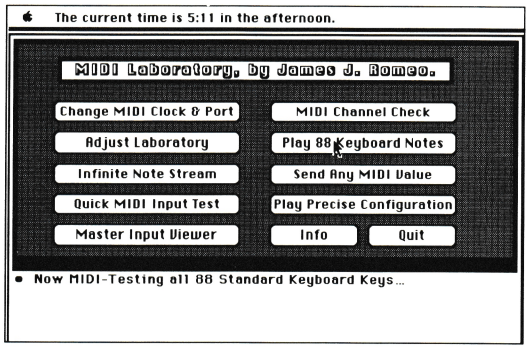
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $100 each, except for Linn Drum ($50)

Support
A full warranty and technical support are provided. Updates are available to registered users for the difference in list price between products.

Uses MIDI
Yes

MIDI Lab



MIDI Lab is a diagnostic tool designed for testing and checking MIDI synthesizers.

Coda Music Software
1401 East 79th St.
Bloomington, MN 55425
800-843-1337

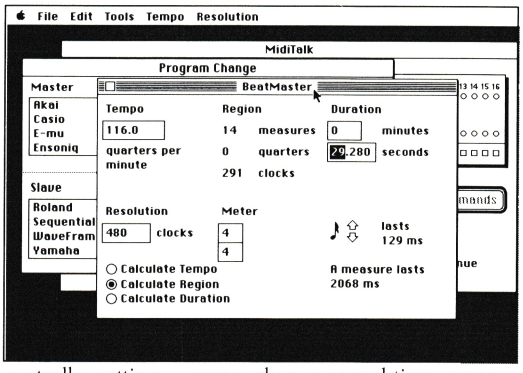
System Requirements
Any Macintosh.

Price $59

Support
Customer service, technical support, a warranty and a toll-free telephone hotline are provided.

Uses MIDI
Yes

MidiPack



MidiPack is a package of three useful MIDI accessories. The MidiTalk section consists of two patch matrixes and a set of MIDI controls. The matrixes are used for flexible channelizing, remapping and muting of MIDI information, while the controls are used to generate frequently needed information such as controller setting, program change or real-time messages. In addition, a patch library and management feature is provided so that the most useful combinations can be saved. The Beatmaster section performs common time-related computations by calculating all the relations existing between a tempo, a region, a duration and a clock resolution. In musical terms, Beatmaster can be used for such things as digital-delay time calculations, track sliding, video/SMPTE editing and cueing, and general time-conversion operations.
For those who use more than one synthesizer in their MIDI setup, The Program Change window simplifies changing programs by anticipating the results of a transmission. Program Change allows a user to transmit that command directly from the window. MidiPack is compatible with Switcher and the MultiFinder.

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

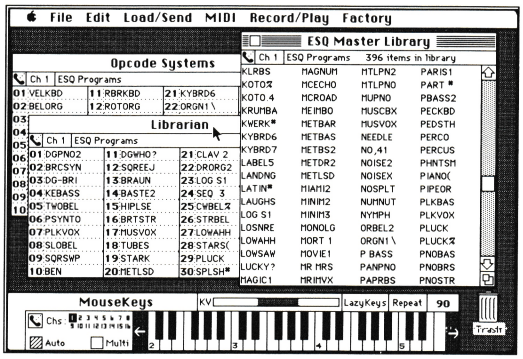
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $80

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes

Opcode Editor/Librarian



The Opcode Editor/Librarian simplifies the editing, storage and management of large numbers of voices for many popular synthesizers. Each Editor/Librarian takes advantage of the Macintosh interface to display the envelopes, waveforms, tunings and other parameters unique to each synthesizer. A user can change any parameter with simple Macintosh mouse movements. A built-in sequencer can play an example sequence every time a parameter is changed. Using the Opcode Editor/Librarian, thousands of synthesizer patches can be stored on a single disk. A user can easily copy patches from one file to another by dragging them with the mouse, and new patches can be created efficiently with Patch Factory, Opcode's intelligent random patch generator. Synthesizers supported include: Yamaha DX/TX, Yamaha DX7II, Yamaha TX81Z, Yamaha FB-01, Casio CZ, Oberheim Matrix 6, Akai MPX820 Mixer, Kawai K-3, Ensoniq ESQ-1 and Roland D-50

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

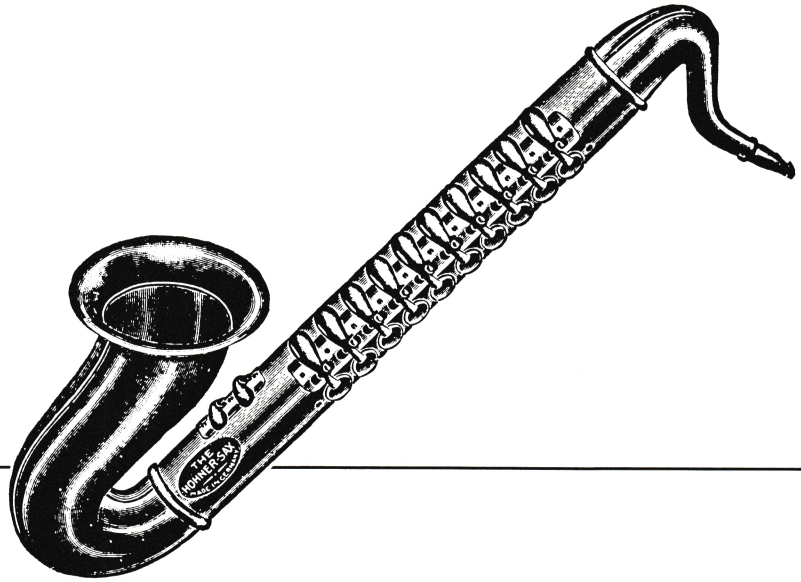
Price $150 to $250

Support
A full warranty and technical support are provided. Updates are available to registered users for the difference in list price between products.

Uses MIDI
Yes

Passport MIDI Voice Librarians

Passport MIDI Voice Librarians are software programs designed for saving and loading music presets and banks of sound to create a custom sound library. Stored sounds can be monitored without disturbing the resident presets in a synthesizer. The programs also provide banks of preset sounds. Sounds are displayed as on-screen cartridges that can be rearranged by dragging. Individual voices or entire cartridges can be loaded to or from a synthesizer. The Macintosh DX/TX Librarian includes a utility that converts Opcode DX/TX patch files to Passport DX/TX format. Other Passport MIDI Voice Librarians for the Macintosh are DX7, TX7, TX 8/16 and CZ 101/1000/3000/5000.



Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

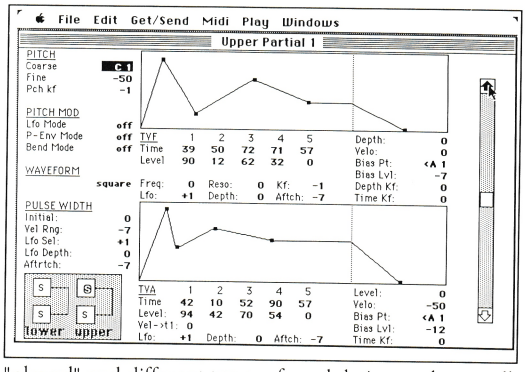
System Requirements
512KE or larger Macintosh; SE; one or more MIDI-equipped synthesizers or drum machines.

Price $69.95

Support
Reduced price upgrades, a 90-day warranty and a customer service department are available.

Uses MIDI
Yes

Roland D-50 Patch Editor/Librarian



The Roland D-50 Patch Editor/Librarian is a full graphic editor that supports all the functions within the D-50. Entry can be accomplished in a variety of ways; the fastest method being by pointing and clicking on a value or on an envelope, then moving the mouse to change the value. The synthesizer can be "played" and different types of modulation and controller data added, all under mouse control. The editor supports complete librarian functions and features complete randomization, and parameters can be masked from being randomized.

Dr. T's Music Software, Inc.
220 Boylston St., Ste. 306
Chestnut Hill, MA 02167
617-244-6954

System Requirements
512KE or larger Macintosh; Roland D-50 synthesizer; MIDI interface.

Price $175

Support
A liberal upgrade policy, backup disks at $15 each, a 90-day guarantee to replace defective software and free technical support to registered users are available.

Uses MIDI
Yes

Sound File

Sound File is a complete sound and sequence librarian program designed exclusively for the ESQ-1 to provide a highly customized librarian environment.

Blank Software
1477 Folsom St.
San Francisco, CA 94103
415-863-9224

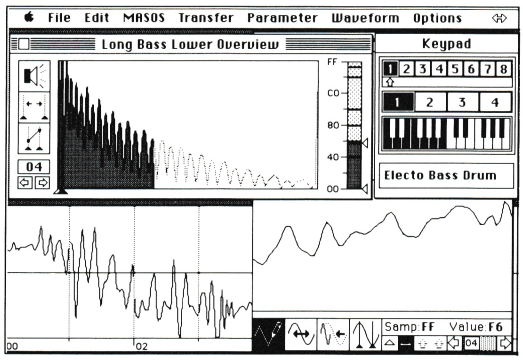
System Requirements
512K or larger Macintosh; SE or II; Ensoniq ESQ-1 digital wave synthesizer.

Price $95

Support
Free updates and technical support are provided.

Uses MIDI
Yes

Sound Lab



Sound Lab is a complete visual editing program that features extensive visual waveform and voice parameter editing, powerful audio processing, graphic looping aids, a unique wavesample librarian and more.

Blank Software
1477 Folsom St.
San Francisco, CA 94103
415-863-9224

System Requirements
512K or larger Macintosh; SE or II; Ensoniq Mirage.

Price $295

Support
Free updates and technical support are provided.

Uses MIDI
Yes

TX802 PRO

TX802 PRO is an editor/librarian designed specifically for the Yamaha TX802 synthesizer. With TX802 PRO, a user can play the TX802 from the computer keyboard and edit all of the voices, performances, utilities and microtunings in the TX802 displayed on the Macintosh screen. The software allows a user to graphically edit the new "fractional scalings" available on the TX802 and edit parameters by simply pointing and clicking the mouse. With the Copy and Paste feature, a user can create and alphabetize libraries with hundreds of voices and performances to add to the memory and organization of his system. TX802 PRO also allows a user to work with large libraries of sounds and edit them simultaneously in a single program.

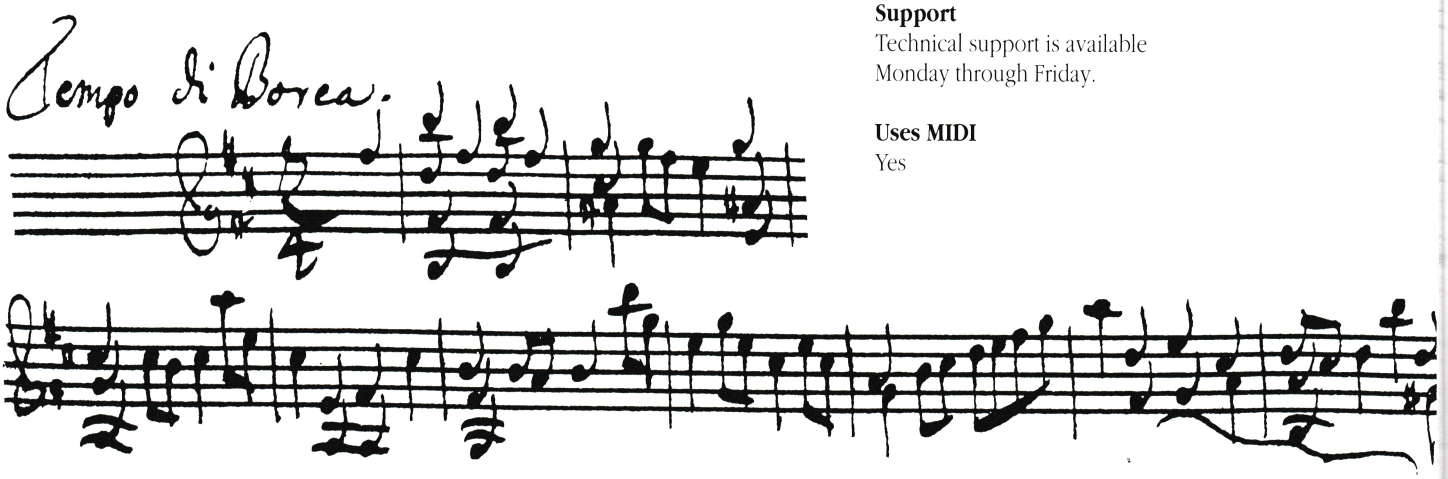
Digital Music Services
23010 Lake Forest Dr., Ste. D334
Laguna Hills, CA 92653
714-951-1159

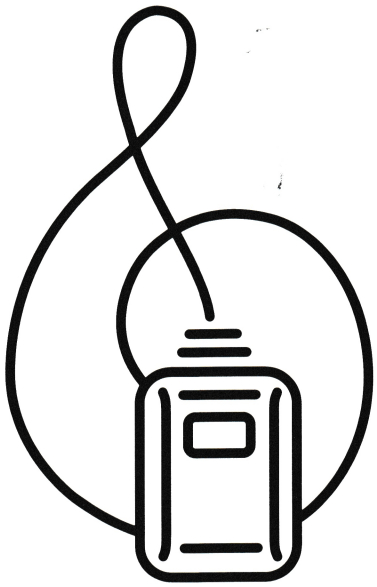
System Requirements
512K or larger Macintosh.

Price $249

Support
Technical support is available Monday through Friday.

Uses MIDI
Yes





Sound Sampling & Design

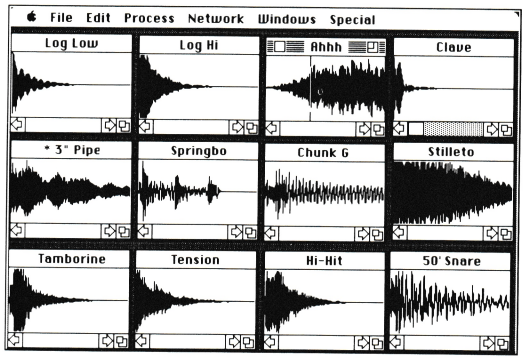
In theory, any instrument or sound can be recreated by an equation with the right calculations. But in reality, many acoustic sounds are difficult to accurately reproduce in this manner. A special class of synthesizers, called samplers, and an approach to the capture and creation of sounds for this instrument, called sampling synthesis, were created to deal with this problem.

A sampling synthesizer doesn't create sounds by calculating them. It plays back a waveform that it has recorded from an acoustic source, such as the string section of a symphony orchestra or raindrops falling on a sidewalk. To record this acoustic waveform, a microphone is used to convert the sound of the instrument into an audio signal, which is in turn sent to an analog-to-digital converter (ADC). The ADC turns the signal into a series of numbers that the synthesizer can store in its memory as a waveform for playback by a musician.

Sound captured in this manner often needs to be modified in some way by the musician. For example, a sound can be looped to make it last longer or blended with various sounds, such as the attack of a guitar followed by a jet roar. These tasks require a high degree of editing capabilities that was either not available before or was only available on expensive instruments that the average musician could not afford.

With new software that facilitates sampled sound design and editing, and lower cost sampling synthesizers, the average musician now has greater access to the world of sampled sound.

Alchemy



Alchemy is a universal 16-bit stereo sample editing network for the Macintosh and supported sampling keyboards, drum machines and other devices. Based around an elegant and sophisticated waveform editor, Alchemy lets a user retrieve mono and stereo sounds and store them in a universal library to be used by all network samplers. Alchemy also offers FFT frequency analysis and resynthesis and a host of digital signal processing capabilities, such as digital EQ, automated crossfade looping and high-fidelity sample rate conversion. As the central node of a Distributed Audio Network (DAN), Alchemy turns a Macintosh into a digital audio workstation that can centrally control a studio full of supported sampling devices.

Blank Software
1477 Folsom St.
San Francisco, CA 94103
415-863-9224

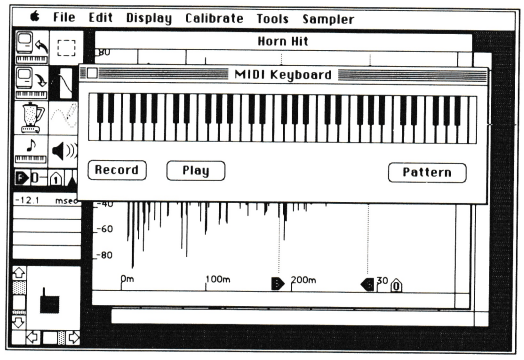
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; instrument(s).

Price $495

Support
Free updates and technical support are provided.

Uses MIDI
Yes

Softsynth 2.0



Softsynth 2.0 is a 32-oscillator additive and FM digital synthesis program for the Macintosh. Each of the program's 32 oscillators has variable frequency, an amplitude envelope of up to 40 stages, a pitch envelope of up to 15 stages and a choice of five different waveforms. Softsynth sounds can be created or edited in three different ways. Single Partial editing gives a user complete control over each individual oscillator. Time Slice editing allows the insertion of Timbre Events (tonal colors) along a single master amplitude envelope. The SmartSynth function allows a user to quickly specify general characteristics of a sound, then lets the computer randomly generate sounds fitting the description. Once a sound has been synthesized by the computer in 16-bit format, it can be previewed on the computer's internal speaker or loaded into a variety of sampling keyboards for playback. Softsynth works with Akai S900, S612, S700 and X7000; Casio FZ-1; Dynacord Add-1; E-mu Emulator II, Emax and SP-1200; Ensoniq Mirage/Multisampler, Korg DSS-1, Oberheim DPX-1, Roland S-10, S-50, S-550 and MKS-100; Sequential Prophet 2000/2002; and any sampler conforming to the MIDI Sample Dump Standard.

Digidesign, Inc.
1360 Willow Rd., Ste. 101
Menlo Park, CA 94025
415-327-8811

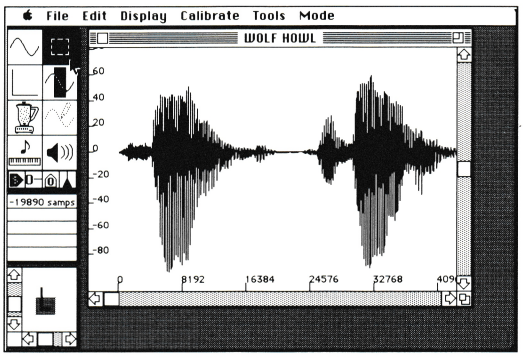
System Requirements
512K or larger Macintosh; MIDI interface; compatible synthesizer.

Price $295

Support
Free customer support is provided for registered owners. Updates are available for a nominal fee.

Uses MIDI
Yes

Sound Designer



Sound Designer Version 1.12 is a waveform editing/digital signal processing software program. The program includes graphic displays of up to three waveforms, crossfade looping, complex frequency analysis, digital equalization, comprehensive waveform editing, and digital mixing and merging of sounds. Sound Designer works with Akai S99, S700 and X7000; Casio FZ-1; Dynacord Add-1; E-mu Emulator II, Emax and SP-1200; Ensoniq Mirage/Multisampler; Korg DSS-1; Oberheim DPX-1; Roland S-10, S-50, S-550 and MKS-100; Sequential Prophet 2000/2002; and any sampler conforming to the MIDI Sample Dump Standard.

Digidesign, Inc.
1360 Willow Rd., Ste. 101
Menlo Park, CA 94025
415-327-8811

System Requirements
512K or larger Macintosh; 800K disk drive; MIDI interface; compatible synthesizer.

Price $395 to $495

Support
Free customer support is provided for registered owners. Updates are available for a nominal fee.

Uses MIDI
Yes

Universe of Sounds

Universe of Sounds is a CD-ROM digital sound library containing 2,500 samples. Using the Digidesign Sound Designer format, the Universe of Sounds library offers sound effects, percussion, synthesized voices, strings, acoustic piano and guitar. The sound library is cataloged with HyperCard, from which sounds can be selected and loaded into the Sound Designer software for auditioning or sampling.

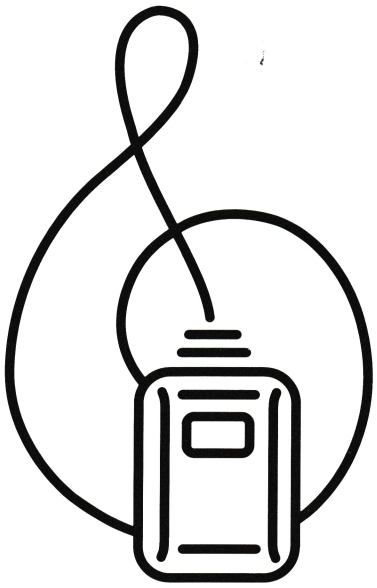
Optical Media International
485 Alberto Way, Ste. 115
Los Gatos, CA 95032
408-395-4332

System Requirements
Macintosh Plus; SE or II; Toshiba or other SCSI CD-ROM drive; Digidesign's Sound Designer or Blank Software's Alchemy.

Price Discs: $995; CDS3 CD-ROM drive: $1,995

Support
Technical support is provided by an international dealer network in 22 countries.

Uses MIDI
Yes



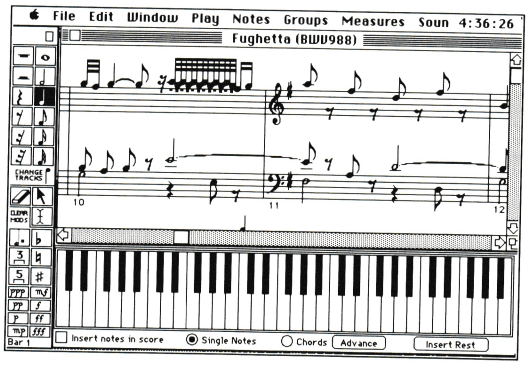
Music Notation & Publishing

In the past, musicians had to create, by hand, musical manuscripts such as lead sheets for rehearsals, recording sessions or performances, which was a time-consuming task. If they had to change a part in a song, such as adding a bridge, changing the key or rearranging an instrumental solo, they either had to read a messy piece of music or redo the entire chart by hand.

With music notation and publishing software, musicians now have the same degree of flexibility in creating musical manuscripts that is offered to writers by word processors. The computer enables composers and arrangers to create and publish quality sheet music. Musicians can select notes, rests and musical dynamics from palettes and place them on staffs. They can also add lyrics and line up the spacing on the corresponding notes with the appropriate syllables of the words.

Today's compositions can be transposed into a different key that automatically changes all the notes, sharps, flats and naturals, eliminating sight transposing at sessions. And any particular part of a piece of music can be printed separately when needed.

Deluxe Music Construction Sequencer Set 2.0



Deluxe Music Construction Set 2.0 is a music tool for composing, performing and publishing. New MIDI features have been added to allow input from a MIDI-compatible device directly into the program, which supports Opcode's MIDIMac Sequencer and uses Simple Music Format (IDD Standard). Complete music notation and editing tools allow a user to compose from an on-screen keyboard and switch immediately between composing and playing. Playback is possible through any MIDI-compatible instrument; notes and chords flash as the music plays. Sixteen instruments with multiple style-of-play choices are available. Desktop music publishing features include complete printing controls for sheet music, extra graphics for additional music notation and support for the high-quality Sonata font by Adobe Systems, Inc.

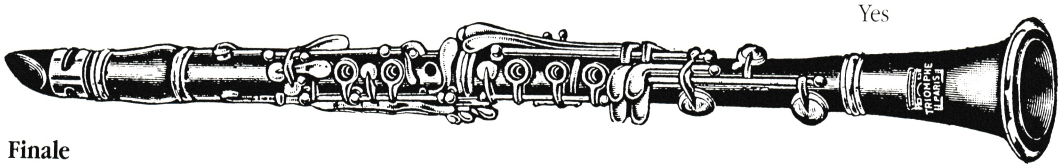
Electronic Arts
1810 Gateway Dr.
San Mateo, CA 94404
415-571-7171

System Requirements
512K or larger Macintosh; SE or II; MIDI-compatible instrument; PostScript printer; Sonata font by Adobe recommended for desktop publishing.

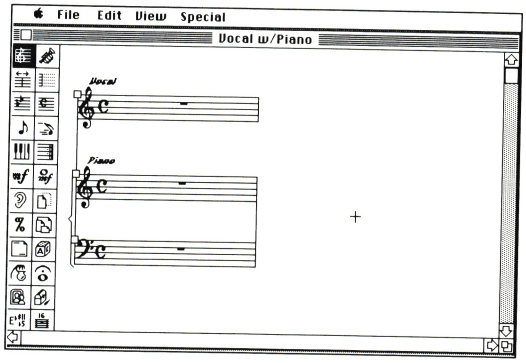
Price $99.95

Support
A customer service number is available.

Uses MIDI
Yes



Finale



Finale is a music software program that prints and plays musical scores and sheet music. The program features functions such as music transcription, playback and custom page layout. Editing features include cross-staff beaming, angled beaming, custom beaming, reverse stemming, cross-staff stemming, custom stemming, and complex time and key signatures.

Coda Music Software
1401 East 79th St.
Bloomington, MN 55425
800-843-1337

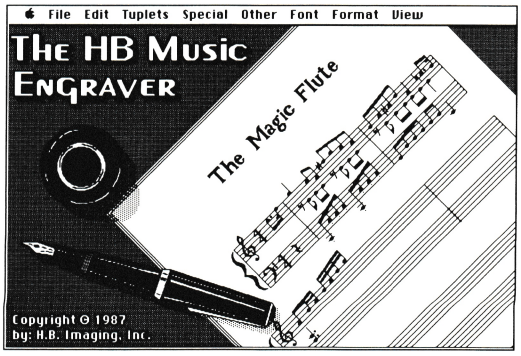
System Requirements
Macintosh Plus; SE or II; MIDI interface; MIDI keyboard recommended.

Price $795

Support
Customer service, technical support, a warranty, a toll-free telephone hotline, video, updates and a nationwide dealer network are available.

Uses MIDI
Yes

HB Music Engraver



The HB Music Engraver is a music notation software package for desktop publishing on the Macintosh. The software includes the PostScript font Interlude and follows the standard MIDI format for publisher-quality printing. It allows for direct MIDI input using step time. A utility package performs conversions from Mark of the Unicorn's Professional Composer and Performer. Music Engraver files can be listened to through MIDI and can be sent to most popular graphic and page layout programs, such as Encapsulated PostScript and bit-mapped files (files are Adobe Illustrator compatible). Up to 50 staves per system, eight lines of music per staff and 30 note chords per line of music are possible. HB Music Engraver uses more than 124 music symbols. Synthesizers supported include Roland, Yamaha and Casio.

HB Imaging, Inc.
560 South State St., Ste. G1
Orem, UT 84058
801-225-7222

System Requirements
Macintosh Plus; SE or II; 1 MB of RAM; ImageWriter, LaserWriter or other PostScript printer.

Price $395
A publisher's version for $5,000 includes custom programming, personal visits from the company and composer database information.

Support
A toll-free technical support number and free updates are available.

Uses MIDI
Yes

Music Publisher

Music Publisher integrates age-old traditions and modern practices in music notation and incorporates them into a desktop music publishing package specifically designed for musicians, composers and composition programs. Fundamentally different from other music scoring and composition programs, it takes a page layout approach to the creation of music, greatly increasing productivity and the quality of the finished score. A major feature of Music Publisher is the inclusion of a special music keypad, which is designed for fast and accurate keying of music. "Built-in" musical knowledge prevents the inadvertent entry of anything that is musically incorrect (although this can be overridden). These features, combined with an optional full page monitor, provide a user with a powerful music workstation. Music Publisher is completely compatible with all MIDI devices. This provides the ability to transfer music from a sequencer, synthesizer or other MIDI instrument and subsequently audibly check notations by playing them back to the instrument. For larger businesses, Music Publisher is also available in a multiuser version known as Fortissimo. Options available for the Music Publisher systems include: full orchestral notation, full dictionary of musical terms, 2,000+ extra guitar boxes, job costing facility and font extension package.

Graphic Notes
200 7th Ave.
Santa Cruz, CA 95062
408-476-0147

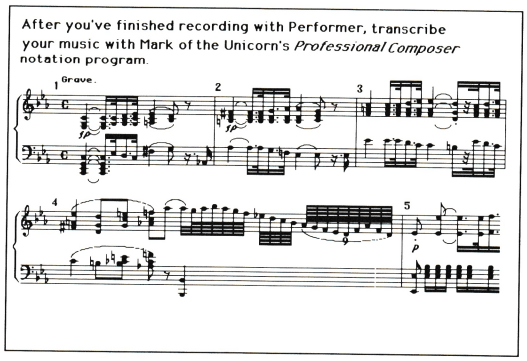
System Requirements
Any Macintosh with 1 MB of RAM.

Price $595 to $1,895
Music Publisher $595 (includes music keypad); Music Publisher Fortissimo $1,895 (multiuser version includes music keypad).

Support
A toll-free 800 number for service and support, updates and a warranty are available.

Uses MIDI
Yes

Professional Composer


After you've finished recording with Performer, transcribe your music with Mark of the Unicorn's *Professional Composer* notation program.
Grave.

Professional Composer is a music notation program that allows the creation of scores up to 40 staves, entering and deletion of more than 100 musical symbols and group notes and phrases with beams, slurs, ties and measure lines. Advanced features provide for the validation of instrument ranges, transposition and extraction of parts, insertion of lyrics, and change of rhythm and merging of voices.

Mark of the Unicorn, Inc.
222 Third St.
Cambridge, MA 02142
617-576-2760

System Requirements
Any Macintosh.

Price $495

Support
Free telephone support and a 90-day product warranty are provided.

Uses MIDI
Yes

Sonata

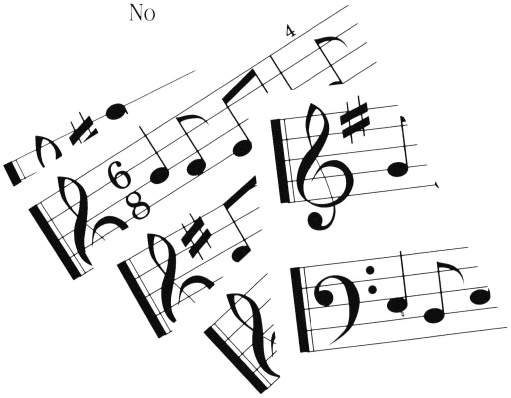
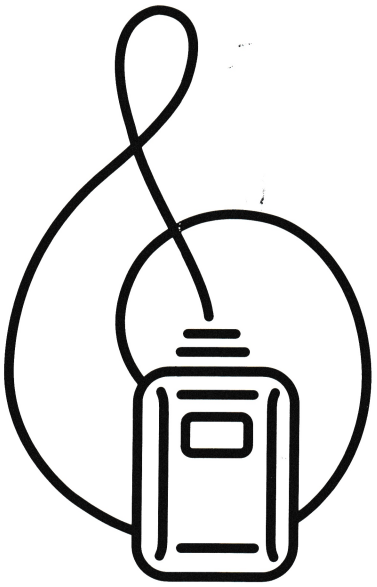
Sonata is a music notation font designed for use in high-quality music publishing. It has a character set of more than 170 symbols, including many composites, and may be used with an appropriate music-setting application to produce magnificent printed music. Sonata has also been designed to work with any Macintosh program that uses the font menu. It has an easily remembered keyboard layout for inclusion of music symbols in any document.

Adobe Systems, Inc.
1585 Charleston Rd.
Mountain View, CA 94039-7900
415-961-4400

System Requirements
Macintosh Plus; SE or II; music publishing software; PostScript-equipped printer.

Price $95

Support
Free technical support is available.

Uses MIDI
No



Sequencing

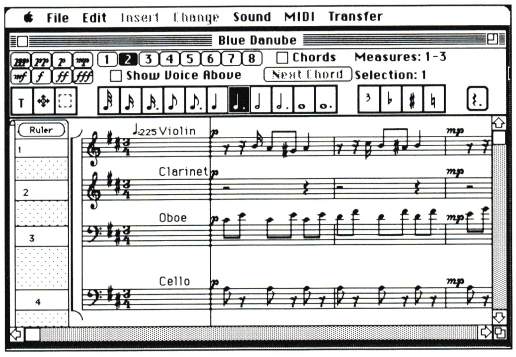
Sequencing is the most popular music-specific software application for professional musicians. With sequencing software, a Macintosh can perform many of the functions of a highly sophisticated multitrack tape recorder. This allows a single musician to compose, perform and arrange all of the parts of a song before other musicians are brought in for rehearsal or recording.

Unlike a multitrack tape recorder, which records sounds, a computer captures "performance information" from each instrument as it is played by a musician. This includes information about what notes are being played, how long they are sustained and any special effects, such as pitch bend, modulation or pedaling.

When a computer is used as a playback device, it sends out this performance information as a set of instructions to each synthesizer or sound source, which recreates the original performance of the musician. In this manner, every part or track of a song, from the basic drum and bass lines to melody and harmony parts, can be played by a single musician controlling a number of different sound sources.

When instruments are played and recorded directly to tracks on tape, a musician does not have the ability to experiment with different sounds for different parts of a song, to fix mistakes or to rearrange a piece without having to replay and rerecord several parts. Because the Macintosh is used to capture performance information, and not the actual sounds created by the instrument, it allows a musician to change the sounds used to play the various parts of a composition, to easily fix a wrong note or to extend an instrumental break in a song.

ConcertWare+MIDI



ConcertWare+MIDI is an integrated music package for composition, editing, playback and printing. Real-time and step-time music can be entered with any MIDI-compatible keyboard, a Macintosh keyboard or mouse. Eight voices can be entered on up to eight staves, with up to eight note chords. Music notation capabilities include support for the Sonata PostScript music font and free format text and vertical rulers, which provide control of staff and voice arrangements. Voices can be cut and pasted and transposed. Notes can be extracted from chords, and the duration of notes can be changed. The Music Writer portion of the package supports transcription from real-time recording into standard musical notation and MIDI features, including velocity, patch changes and a variety of mappings. MIDI macros can be designed to support the special features of synthesizers, drum machines and/or specialized MIDI devices. ConcertWare+ supports MultiFinder and color displays on a Macintosh II.

Great Wave Software
5353 Scotts Valley Dr.
Scotts Valley, CA 95066
408-438-1990

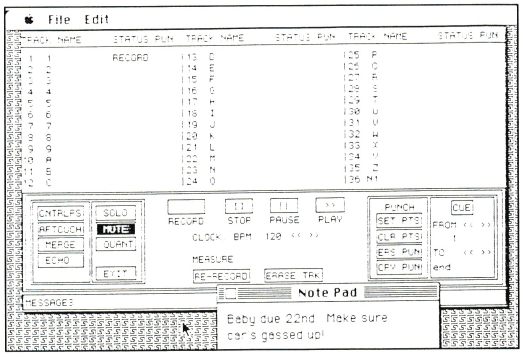
System Requirements
512K or larger Macintosh; SE or II.

Price $149.95

Support
Telephone support, updates and a 90-day warranty are provided, as well as a newsletter with tips and upgrade information.

Uses MIDI
Yes

Keyboard Controlled Sequencer 1.6



The Keyboard Controlled Sequencer contains three modes of operation. The first one is Track Mode, which is essentially a 48-track automated tape recorder with full editing functions that allow a user to record any number of MIDI channels on one track. Tracks can be mixed down into the 128 available sequences to be used in Song or Open Mode. The second mode is Song Mode, which is a simple but powerful method of chaining sequences into songs. It provides for the manipulation of sequences in a variety of ways. Finally, Open Mode is both a powerful and flexible method of manipulating sequences. It allows a user complete control of his music.

Dr. T's Music Software, Inc.
220 Boylston St., Ste. 306
Chestnut Hill, MA 02167
617-244-6954

System Requirements
512KE or larger Macintosh.

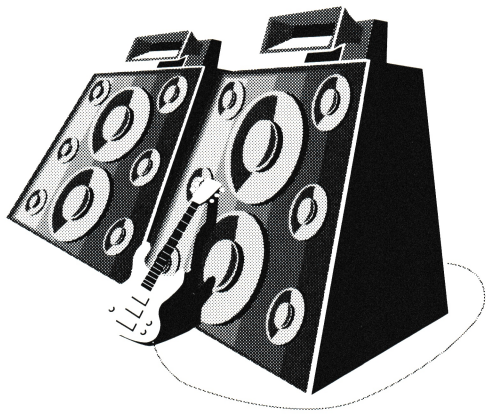
Price $249

Support
A liberal upgrade policy, backup disks for $15 each, a 90-day guarantee to replace defective software and free technical support to registered users are provided.

Uses MIDI
Yes

MacDrums

MacDrums is a self-contained, programmable, four-voice polyphonic drum synthesizer and sequencer that contains samples of 35 percussion instruments.



Coda Music Software
1401 East 79th St.
Bloomington, MN 55425
800-843-1337

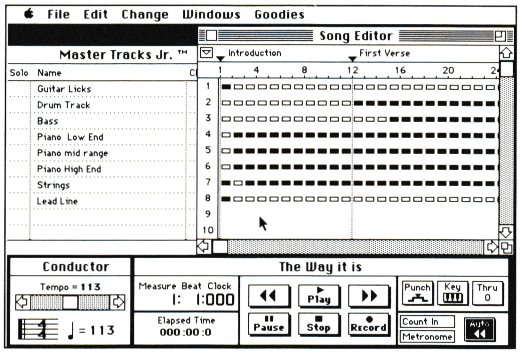
System Requirements
Any Macintosh.

Price $49.95

Support
Customer service, technical support, a warranty and a toll-free telephone hotline are provided.

Uses MIDI
Yes

Master Tracks Jr.



Master Tracks Jr. provides a composing environment for recording music. Included in the software program are tools for composing, recording and editing music. It is based on Passport's Master Track Pro and is compatible with files from that program, as well as standard MIDI files. A multitrack sequencer can be controlled with on-screen play, record, pause, fast forward and rewind functions. Music can be recorded live on 64 tracks from a MIDI instrument or by note-by-note input. The program's song editor displays tracks as measures over time for editing with cut, copy and paste commands.

Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

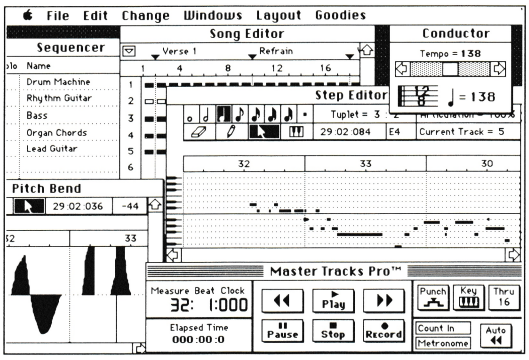
System Requirements
512K or larger Macintosh; SE; Passport MIDI interface or compatible; one or more MIDI-equipped instruments.

Price $149.95

Support
Reduced price upgrades, a 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

Master Tracks Pro for Macintosh



Master Tracks Pro is a music sequencer that offers five main modules. The modules provide 64 tracks of real-time and step-time input, song and step editing capabilities, a librarian, and a keyboard control mapper. The program is designed to read and write standard MIDI files and is MultiFinder-compatible.

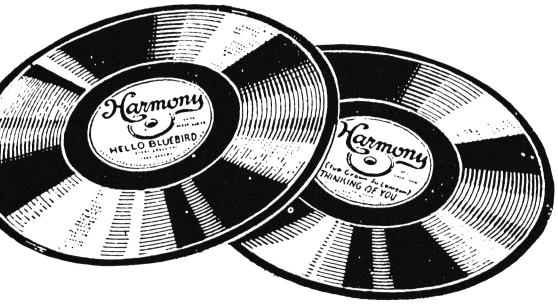
Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

System Requirements
512K or larger Macintosh; Passport MIDI interface or compatible; one or more MIDI-equipped instruments.

Price $349.95

Support
Reduced price upgrades, a 90-day warranty and a customer service department are provided.

Uses MIDI
Yes



MidiPaint

MidiPaint is a full-featured professional MIDI sequencer. It includes graphic and numeric note editing; 16,000 tracks; independent looping on 400 multitrack sequences; SMPTE Direct Time Lock; cueing of sequences by MIDI or SMPTE time; complete quantization and filtering; tempo and meter changes throughout the song; step-time; and generated sequences. The graphic editing of MidiPaint combines powerful editing features with the simplicity of MacPaint. Global editing is selectable by note range, duration range, time span and event type. Quantization is reversible and can be done in real time or on prerecorded material. In addition to simply quantizing the note attacks, MidiPaint also provides precise control over length of notes, placement of the note release and general tightness of the time correction. Extensive features for generating rhythm patterns are also provided. Sequencer features include: punch-in with rehearse mode, recording in a loop and simultaneous recording of 16 channels. MidiPaint is not copy protected. It includes MIDI drivers and sample source programs in C for writing personal MIDI desk accessories.

Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
512KE or larger Macintosh; SE or II; 1 MB of RAM; MIDI interface.

Price $149

Support
A technical support hotline and free minor updates are provided. Upgrades are available for a minimal charge.

Uses MIDI
Yes

MidiShare Utility Program for MultiFinder

MidiShare is a software program that provides MIDI support for multiple MIDI applications running under MultiFinder. All applications receive all MIDI data and may simultaneously send MIDI data with arbitration performed by MidiShare. The program supplies control panel software and the ability to edit/save and restore the tempo map from any JamBox model. Supporting programs include MidiPaint, One-Step and mixing automation programs from Digital Music Services and Musically Intelligent Devices (MegaMix).

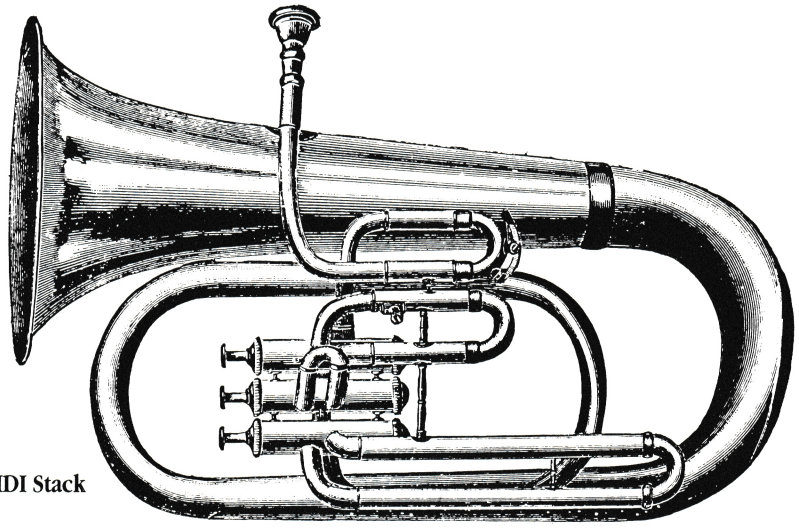
Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
Macintosh Plus; SE or II; 2 MB of RAM; MultiFinder; MIDI interface.

Price $49

Support
A technical support hotline and free minor updates are provided. Upgrades are available for a minimal fee.

Uses MIDI
Yes



MIDI Stack

MIDI Stack is a HyperCard stack that allows MidiPaint segments or One-Step files to be played as a background task under HyperCard. Up to 30 segments may be played concurrently. Sync and tempo may be controlled by JamBox.

Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
Macintosh Plus; SE or II; 1 MB of RAM; HyperCard.

Price $15

Support
A technical support hotline and free minor updates are provided. Upgrades are available for a minimal fee.

Uses MIDI
Yes

One-Step MIDI Sequencer Program

One-Step is a 16-track MIDI sequencer that includes full graphic note editing and graphic editing of controller, pitch bend and tempos. Like MidiPaint, One-Step is designed to look like a Macintosh paint program. All tools are accessible by both palettes on the screen and by keyboard commands. The program includes nearly all the global editing features of MidiPaint for quantizing, filtering, accenting, transposing and the bouncing of MIDI information. One-Step is recommended for a user who is new to sequencing or who prefers tape recorder-style sequencing on 16 tracks to the highly structured approach of high-end sequencers such as MidiPaint. One-Step provides support for large displays, color and gray-scale monitors. It also provides graphic editing of multiple tracks, as well as reading and writing of MIDI File sequence files and tempo maps.

Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617- 772-9471

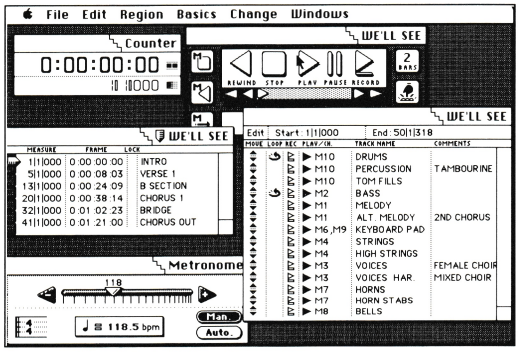
System Requirements
512KE or larger Macintosh; SE or II; 1 MB of RAM; MIDI interface; synthesizer.

Price $69

Support
A technical support hotline and free minor updates are provided. Upgrades are available for a minimal fee.

Uses MIDI
Yes

Performer



Performer is a powerful MIDI sequencer, editor and performance tool that provides multitrack recording, precise editing of all musical events and total control of MIDI keyboards. Advanced features include multiple meter changes, programmable tempo changes, independent track looping and SMPTE features.

Mark of the Unicorn, Inc.
222 Third St.
Cambridge, MA
617-576-2760

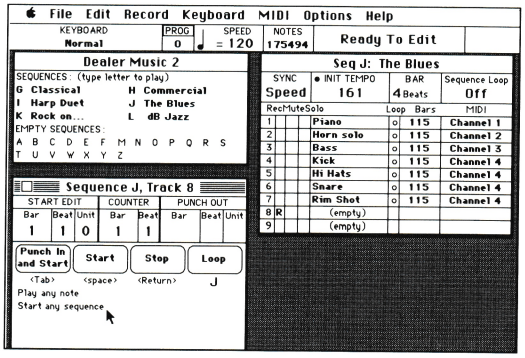
System Requirements
Any Macintosh; MIDI interface; synthesizer.

Price $395

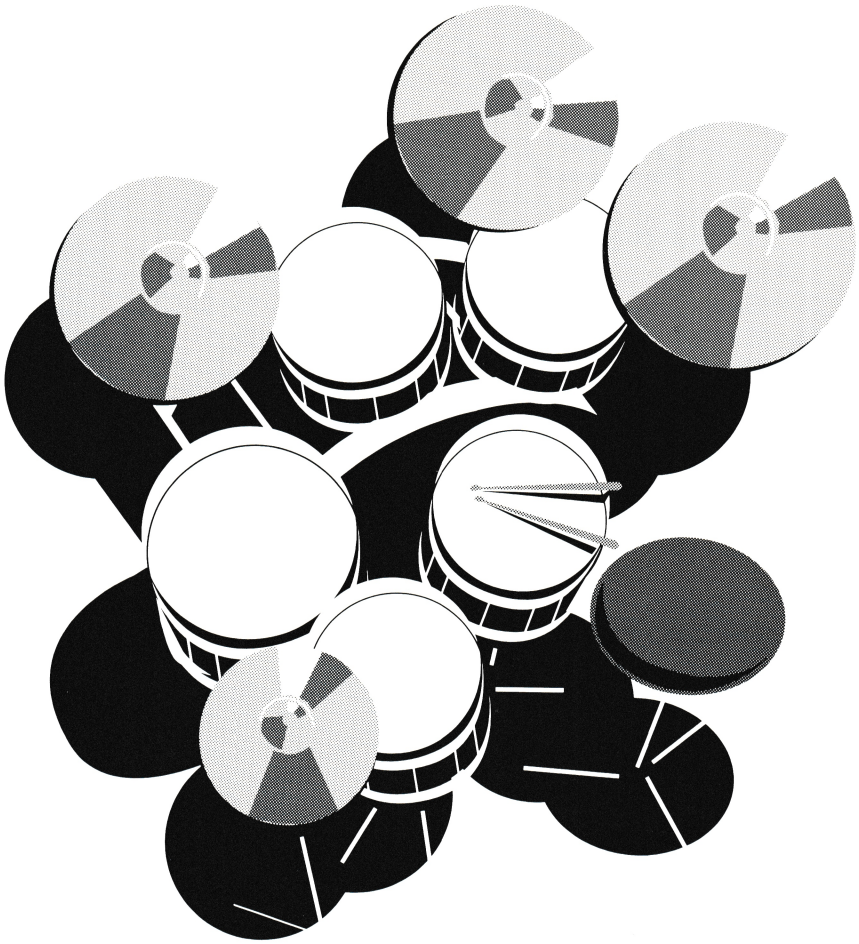
Support
Free telephone support and a 90-day product warranty are provided.

Uses MIDI
Yes

Sequencer 2.5



Opcode's Sequencer can record and play back music using any synthesizer with MIDI. Sequencer can record up to 26 sequences per file, with up to 16 tracks each. Each track can loop independently, even if tracks are of different lengths. Sequencer 3.0, available in the second quarter of 1988, will include such features as graphic editing and list editing of MIDI events, a MIDI Time Code lock with SMPTE numbers displayed on screen, multiple time signatures per sequence, System Exclusive data recording, 480th-of-a-quarter-note accuracy, expanded sequence capabilities and other professional features required in the recording industry.



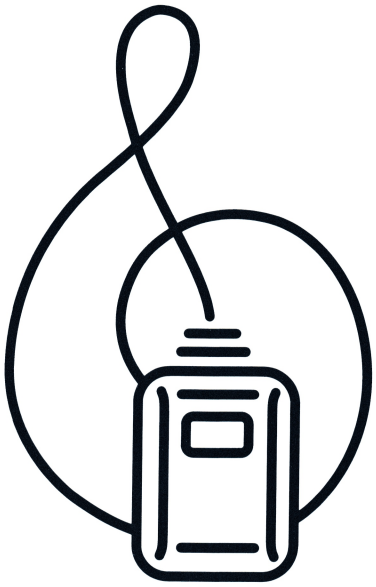
Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $250 for Version 2.5

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes



Film & Video

Music and sound effects are essential to the emotional impact of a film or video. Synchronizing the sound of footsteps on pavement or of an orchestral crescendo to the action on the screen is an important and daily task for the film composer.

In the past, a composer had to redo much of the work on the sound or effects tracks if the order of events in a film was changed or reedited. This caused a loss of valuable time. Today there is specialized software that turns a Macintosh into a powerful audio-visual editing workstation, saving the film composer time in completing and synchronizing a score and providing more time for creative work.

ClickTracks

ClickTracks is a software film and video composer designed for scoring hits and timing. The program can be used alone when scoring for orchestra or live conducting, or with a MIDI sequencer and standard MIDI files. Video and films hits in SMPTE numbers or frames are accepted by the program as a series of numbers and descriptions. Tools are included for laying out cues, searching for and creating tempo maps, and beat and tempo changes.

Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

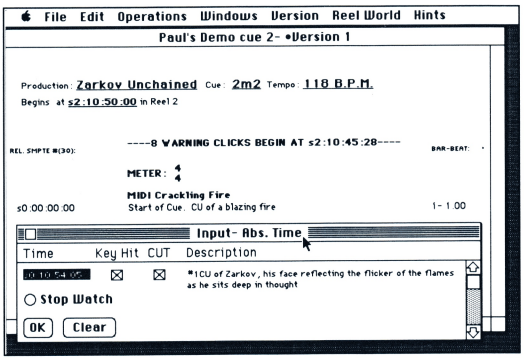
System Requirements
512K or larger Macintosh;
MultiFinder.

Price $249.95

Support
Reduced price upgrades, a 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

CUE — The Film Music System 2.0


File Edit Operations Windows Version Reel World Hints
Paul's Demo cue 2- •Version 1
Production: Zarkov Unchained Cue: 2m2 Tempo: 118 B.P.M.
Begins at s2:10:50:00 in Reel 2
REL SMPTE #(30):
----8 WARNING CLICKS BEGIN AT s2:10:45:28----
BAR-BEAT:
METER: 4 4
MIDI Crackling Fire
s0:00:00:00
Start of Cue. CU of a blazing fire
1- 1.00
Input- Abs. Time
Time
Key Hit
CUT
Description
*1CU of Zarkov, his face reflecting the flicker of the flames as he sits deep in thought
Stop Watch
OK
Clear

CUE is a comprehensive software package for creating music and sound scores that synchronize to pictures. To score a film, a user must first create a click track that "catches" important events in the picture. CUE automates this task by having the Macintosh calculate times for all of these events, as well as meter and tempo changes, leaving a composer free to concentrate on the more creative side of film scoring. Version 2.0 of CUE adds the ability to sync clicks and sound effects to a film's SMPTE track through the use of the MIDI Time Code. By locking the clicks to a picture, a composer can tell how each tempo and meter change within a sound cue works. CUE 2.0 also lets a user sync up to 40 MIDI event triggers that will be played at specified SMPTE locations when playing back sound effects to audio tape. The SMPTE lock allows the input of cue points directly from videotape with a single keystroke when using VITC (Vertical Interval Time Code). Another major feature of CUE is printing score paper with up to 12 staffs, each of which has a reference click track above it showing cue point information derived from the cue sheet. CUE will also print a master cue list and performing-rights cue list for each project, all from stored information.

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

System Requirements
512K or larger Macintosh; SE or II;
MIDI interface; synthesizer.

Price $595

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes

Q-Sheet

Q-Sheet Version 1.0 is a comprehensive, SMPTE-locked MIDI automation program. Using the appropriate MIDI equipment, Q-Sheet can automate every aspect of an audio mixdown or generate complete video soundtracks. Program features include graphic faders, knobs and buttons that can be drawn on screen in any size and configuration, then individually assigned to any MIDI controller; flexible controller grouping; updating mode; and quarter-frame cueing accuracy. Sound effects can be played from a sampler in real time or inserted at precise SMPTE cues. The program can also play a complete music sequence as a single SMPTE-cued event. Other features include MIDI input and output filtering, full printing capabilities and complete offset capabilities. Q-Sheet supports all SMPTE frame rates as well as 16mm or 35mm film.

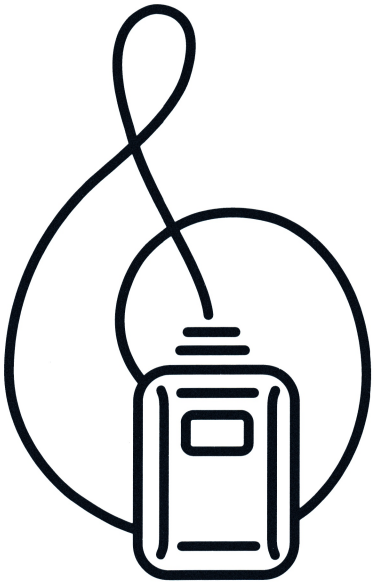
Digidesign, Inc.
1360 Willow Rd.
Menlo Park, CA 94025
415-327-8811

System Requirements
Any Macintosh; MIDI interface; compatible synthesizer.

Price $495

Support
Free customer support for registered owners is provided.

Uses MIDI
Yes

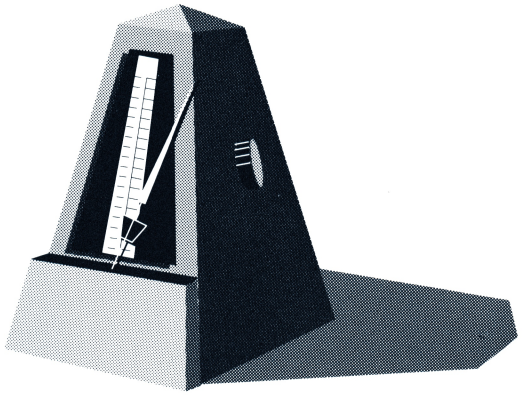


Education

The Macintosh is used in music labs and learning centers in major universities and music schools around the country. Learning about music is like learning to read and speak a new language. It requires much practice and repetition before the skills become automatic. Music education software can transform a Macintosh into a music teacher's assistant or a student's private tutor, helping the student learn about basic music theory and notation, including the basic rules of writing music, recognizing notes and intervals, and constructing and voicing chords.

7th Heaven

7th Heaven includes a music generator and incorporates artificial intelligence for an interactive educational music experience. With 7th Heaven, a user can explore thousands of different chord combinations and voicings. The program also allows a user to set up lesson plans for study in one particular key or type of chord. Included on each disk are several sample lessons. This program is designed for users who are interested in developing perfect pitch and chord recognition skills.



Sonus Corp.
21430 Strathern St., Ste. H
Canoga Park, CA 91304
818-702-0992

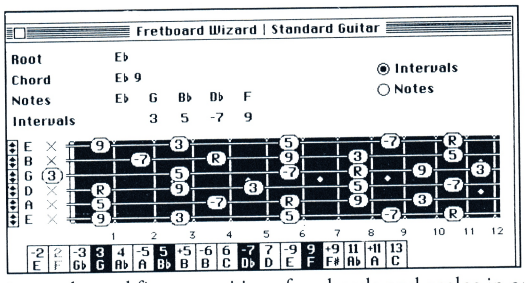
System Requirements
512K or larger Macintosh; external MIDI keyboard and interface recommended.

Price $79.95

Support
Free technical support is provided.

Uses MIDI
Yes

Guitar Wizard



Guitar Wizard is a software program that allows an individual to learn and analyze scales, chords and tonings for all types of fretted string instruments. The program offers clear graphics displays of the fretboard show notes, intervals, and finger positions for chords and scales in any key. Printer dumping is included for study away from the computer.

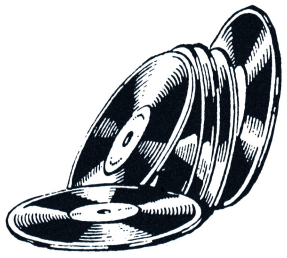
Baudville
5380 52nd St. SE
Grand Rapids,.MI 49508
616-698-0888

System Requirements
Any Macintosh.

Price $34.95

Support
Telephone support is provided to registered users, as well as a 90-day disk warranty. A $12.50 replacement fee is required thereafter.

Uses MIDI
No



KidsTime

KidsTime is a collection of five educational programs designed for the Macintosh. The software package includes KidsNotes in addition to ABKey, Match-it, Story Writer and Dot-to-Dot. KidsNotes is a program that allows children to experiment with the basic elements of music, such as rhythm, pitch, duration, tempo, volume, and simple time and key signatures. An assortment of simple melodies, including nursery rhymes, is included on the disk. One-note melodies can be entered using the mouse or the computer keyboard. When the melodies are played back, notes are highlighted on the screen's piano keyboard and on the musical score. Music entered into the program may be saved, played and edited. The included manual fully explains the program and contains "Notes to the Musically Unsure" to help parents and children understand some basic musical concepts.

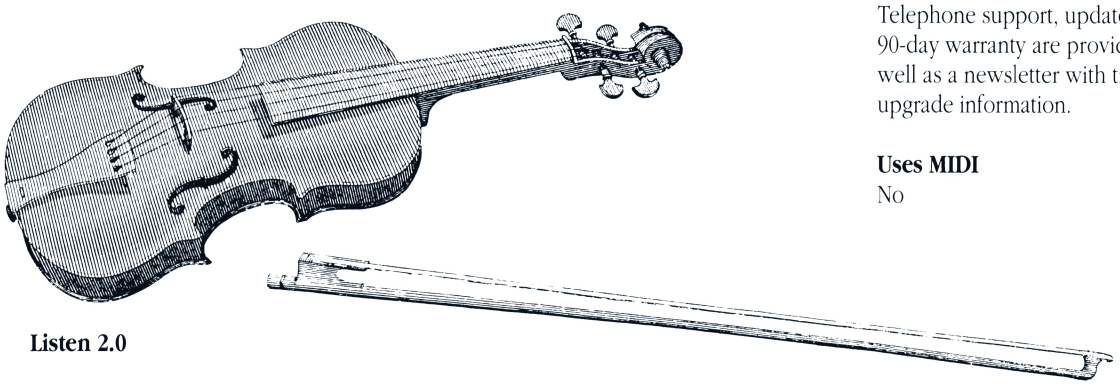
Great Wave Software
5353 Scotts Valley Dr.
Scotts Valley, CA 95066
408-438-1990

System Requirements
Any Macintosh.

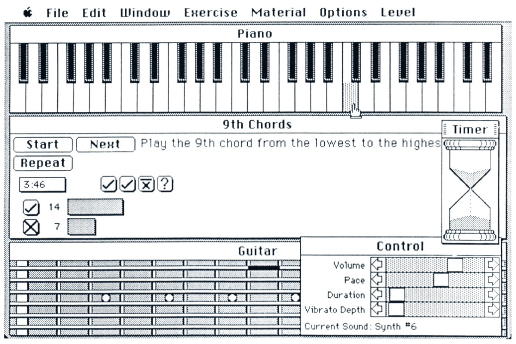
Price $49.95

Support
Telephone support, updates and a 90-day warranty are provided, as well as a newsletter with tips and upgrade information.

Uses MIDI
No



Listen 2.0



Listen 2.0 is an ear-training program that provides exercises such as a two-note melody; growing melody; triads; 7th, 9th, 11th and 13th chords; and random atonal chords. The exercises can be individualized by changing the level of difficulty and setting the pitch, range or inversion.

Resonate, Inc.
PO Box 996
Menlo Park, CA 94025
415-323-5022

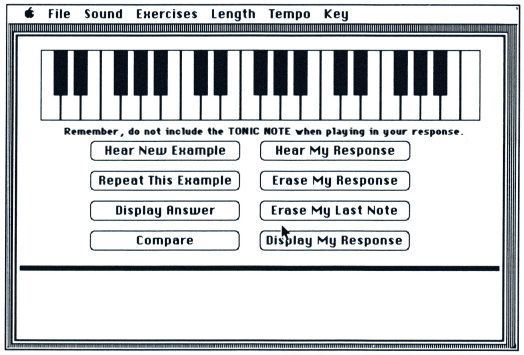
System Requirements
Any Macintosh.

Price $99

Support
A demonstration disk, updates; telephone support and a warranty are available.

Uses MIDI
Yes

Perceive


File Sound Exercises Length Tempo Key
Remember, do not include the TONIC NOTE when playing in your response.
Hear New Example
Hear My Response
Repeat This Example
Erase My Response
Display Answer
Erase My Last Note
Compare
Display My Response

Perceive is a musical ear-training program, which includes software, a textbook and a workbook. The textbook provides explanations of music fundamentals; the software and workbook offer practice drills.

Coda Music Software
1401 East 79th St.
Bloomington, MN 55425
800-843-1337

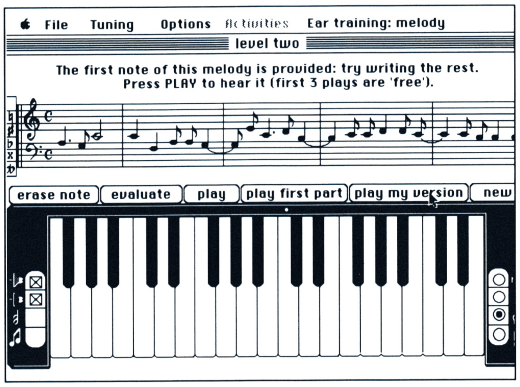
System Requirements
Any Macintosh.

Price $99

Support
Customer support, technical support, a warranty and a toll-free telephone hotline are provided.

Uses MIDI
Yes

Practica Musica


File Tuning Options Activities Ear training: melody
level two
The first note of this melody is provided: try writing the rest.
Press PLAY to hear it (first 3 plays are 'free').
erase note
evaluate
play
play first part
play my version
new

Practica Musica is a comprehensive music training tool that uses either built-in sampled sound or a MIDI keyboard. The program instructs a student in ear training for intervals and melody and in the spelling of intervals and chords, including all the chords of standard harmony texts. In melodic or rhythmic dictation, students can work with a melody drawn from a library of historical excerpts or create a new melody with a choice of scale type, key signature and meter. A student either "writes" the pitches in staff notation or enters notes by clicking keys on the on-screen piano keyboard. The program can correct the student's work and show the correct notation on request. In interval ear training, the program plays an interval, highlights the first note and asks a student to identify the interval by name and to find its other note on the keyboard. A user can choose from the MIDI or built-in organ, piano or harpsichord and change tunings if desired. The program saves scores in the manner of a game and can print a progress record anytime.

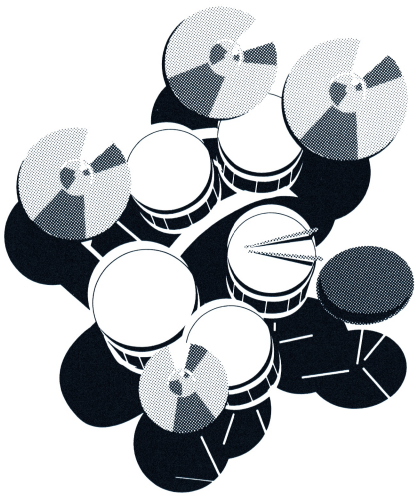
Ars Nova Software
PO Box 40629
Santa Barbara, CA 93140
805-564-2518

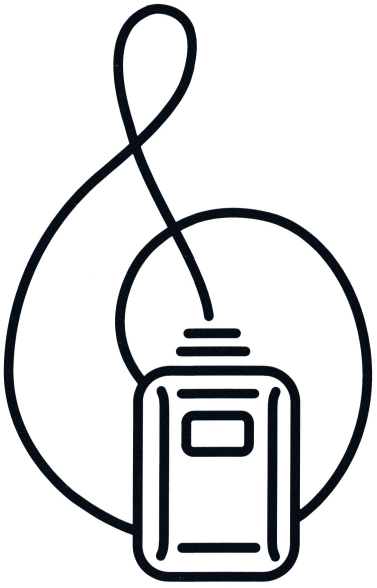
System Requirements
512K or larger Macintosh; SE or II; MIDI keyboard and interface optional.

Price $125

Support
Perpetual upgrades are available at $5.

Uses MIDI
Yes

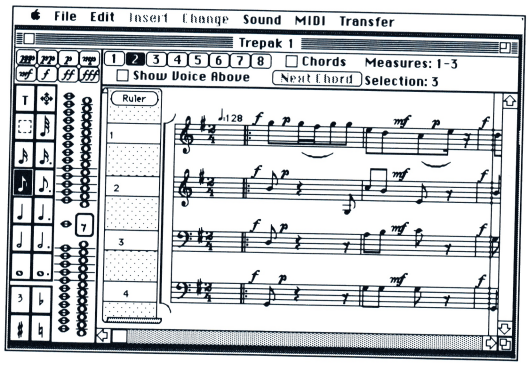




Creativity

It's not necessary to understand music theory or to be an expert musician to use a Macintosh for musical creativity. The products on the following pages provide music enthusiasts with a variety of ways to create music or to play along with musical parts created and controlled by the computer.

ConcertWare+



ConcertWare+ is an integrated music software package containing three programs for composition, editing, playback and printing of musical scores. Music Player plays multiple selections in jukebox style. Music Writer provides step-time and real-time music entry through the Macintosh keyboard and mouse. Eight voices can be entered on up to eight staves, with chords of up to eight notes. Voices can also be cut and pasted and transposed. InstrumentMaker is designed for experimentation with synthesized sounds, which can be played back on the Macintosh, modified or added to the Instrument Library. The package supports MultiFinder and color on a Macintosh II.

Great Wave Software
5353 Scotts Valley Dr.
Scotts Valley, CA 95066
408-438-1900

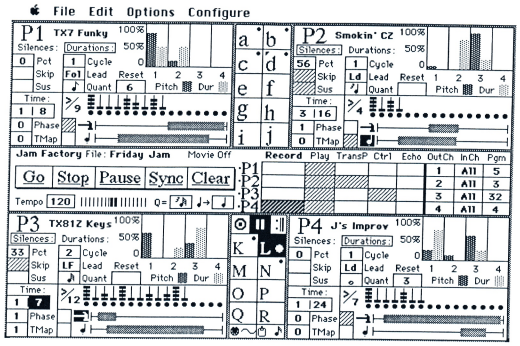
System Requirements
512K or larger Macintosh; SE or II.

Price $69.95

Support
Telephone support, updates and a 90-day warranty are provided, as well as a newsletter with tips and upgrade information.

Uses MIDI
No

Jam Factory


File Edit Options Configure
P1 TX7 Funky
P2 Smokin' CZ
P3 TX81Z Keys
P4 J's Improv
Go Stop Pause Sync Clear
Jam Factory File: Friday Jam
Record Play TransP Ctrl Echo OutCh InCh Pgm

Jam Factory consists of four objects, called Players, that receive MIDI data. When played back, each player performs improvisations on the original input data. The program can be used to improvise, perform or compose. Variations can be enhanced and introduced into compositions. Compositions can be saved as MIDI files and used with other Macintosh music software. Jam Factory features input editing with on-screen display of pitches and durations, scale distortion for remapping chromatic scales, time distortion, MIDI keyboard input, and storing and recall of Player controls and performance gestures.

Intelligent Music
PO Box 8748
Albany, NY 12208
518-434-4110

System Requirements
512K or larger Macintosh; MIDI interface; synthesizer.

Price $200

Support
Telephone support, updates and a warranty are provided.

Uses MIDI
Yes

Jam Session

Jam Session is a music performance program that enables non-musicians to perform musical selections. The program features a selection of 19 rock, jazz and classical compositions and allows a user to play along with the songs. The Macintosh keyboard is used as an instrument to play solos. The program handles transposition and chord changes, providing musically correct accompaniment. Jam Session also includes a note editor for writing original solos, and an automatic record feature. Musicians are displayed on screen.

Broderbund Software
17 Paul Dr.
San Rafael, CA 94903-2101
415-492-3200

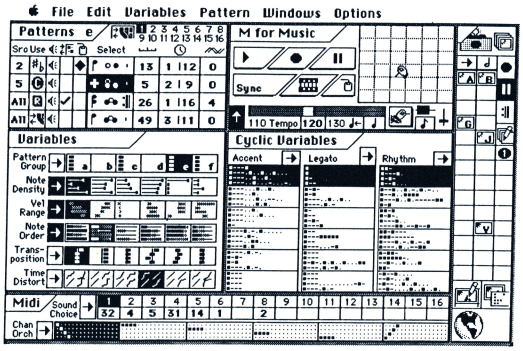
System Requirements
512K or larger Macintosh; SE or II; two disk drives; external speaker recommended.

Price $49.95

Support
A limited 90-day warranty and a toll-free number for technical support are provided.

Uses MIDI
No

M



M is an interactive music composition tool and performing system that creates musical information in response to input. The program allows for the selection of notes, chords and rhythms. Music can be performed by using the mouse or the program's Input Control System and a MIDI keyboard. Performances can be saved as MIDI files and used with other programs. M features editing and input tools; a facility for pattern reordering and selective randomization; a cyclic editor for determining rhythmic and accent patterns and phrasing; screen snapshots that store and recall control configurations; and varying MIDI velocities, note densities, rhythmic patterns, legato-staccato articulations and accent patterns.

Intelligent Music
PO Box 8748
Albany, NY 12208
518-434-4110

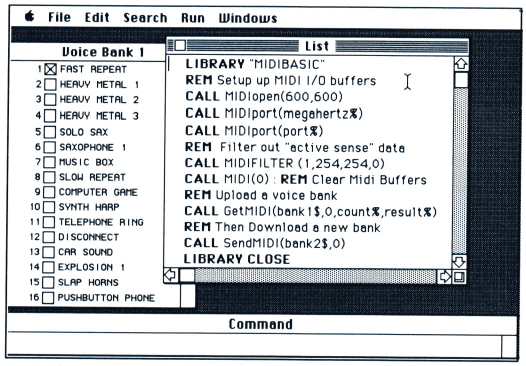
System Requirements
512K or larger Macintosh; MIDI interface; synthesizer

Price $200

Support
Telephone support, updates and a warranty are provided.

Uses MIDI
Yes

MidiBasic 3.0 and MidiPascal 2.2, 3.0



MidiBasic adds more than a dozen MIDI commands to Microsoft's Basic and Zedcor's ZBasic for the Macintosh. Basic users can now interpret and compile their own Macintosh MIDI applications for in-house use or mass market distribution. MidiBasic comes with two disks loaded with example programs, including a complete Casio CZ voice librarian. MidiPascal adds more than a dozen MIDI commands to LightSpeed Pascal and LightSpeed C for the Macintosh, fully supporting "project mode" and "trace" operations. Users may single-step through a MIDI program for unparalleled control over the development and debugging cycles. Version 3.0 of MidiBasic and MidiPascal permit users to program MIDI musical instruments directly in Basic, Pascal, C and other programming languages on the Macintosh.

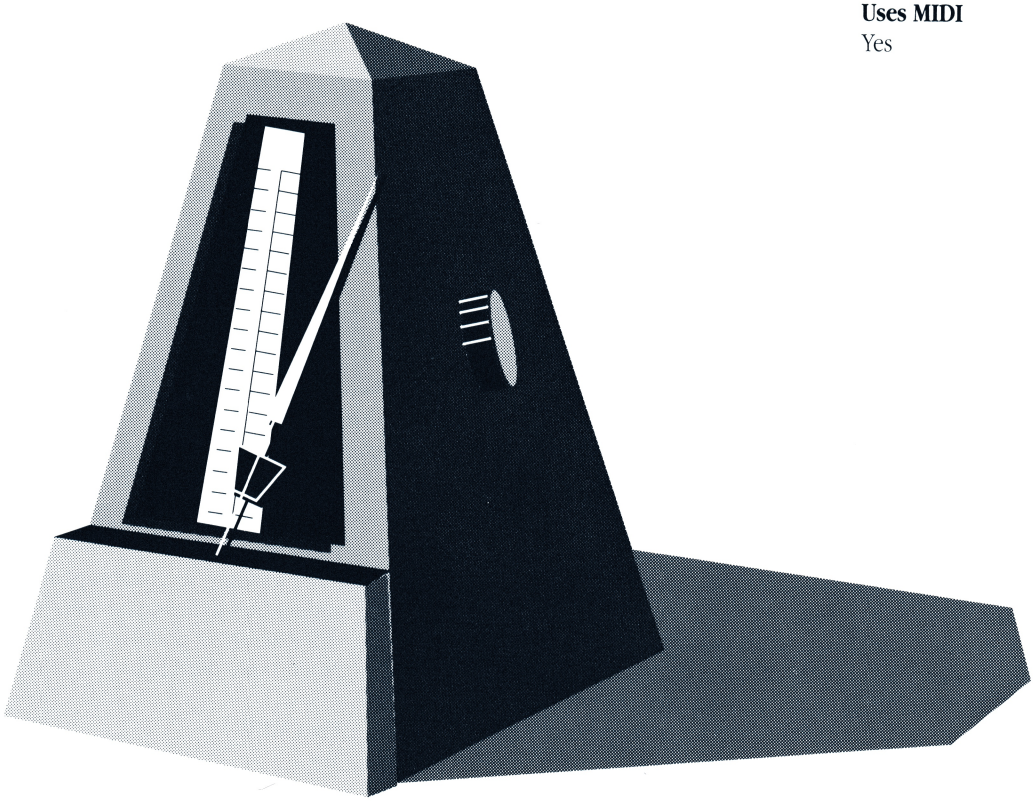
Altech Systems
831 Kings Hwy., Ste. 200
Shreveport, LA 71104
318-226-1702

System Requirements
512K or larger Macintosh; SE or II; MIDI interface; MidiBasic requires MS-Basic interpreter or compiler or ZBasic compiler by Zedcor; MidiPascal requires Lightspeed Pascal, Turbo Pascal or Lightspeed C.

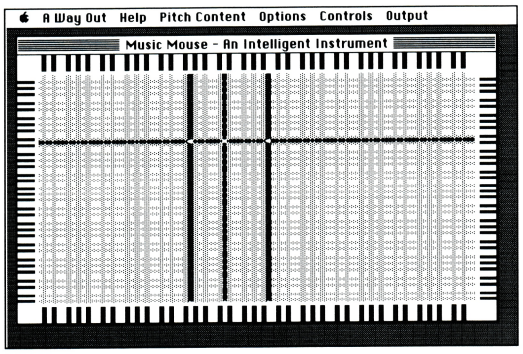
Price $49.95 to $99.95
MidiBasic 2.2 $49.95; MidiBasic 3.0 and MidiPascal 3.0 $99.95 each.

Support
One free hour of technical support is available; additional support is $50 per hour. Updates are available for a minimal fee.

Uses MIDI
Yes



Music Mouse



Music Mouse turns a Macintosh into a musical instrument that is played by using the Macintosh mouse and manipulating control options from the computer's alphanumeric keyboard. Options for type of harmony, transposition, voicing, counterpoint, dynamics, articulations, electronic orchestration and computer-generated melodic-rhythmic patterning are available at all times via single-letter keystrokes. A player is free to focus on the movement of melodic lines and chords, timing, sound quality, phrasing and the overall form and expressive content of the music itself, instead of getting bogged down in finding the notes to play or being able to play them. Because no keyboard is required, the program can also function as a self-contained way to play the less-expensive, keyboardless "rack mount" versions of MIDI synthesizers currently on the market. Because an external MIDI instrument's keyboard remains "live" while this program is running, Music Mouse provides a good way for two people to play together on a single MIDI synthesizer, or for a single player to create full chordal/polyphonic accompaniment with one hand while playing a keyboard solo with the other.

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

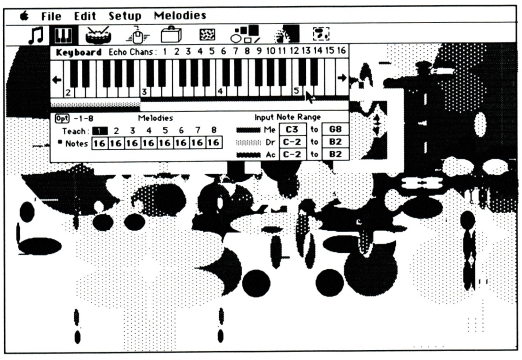
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $60

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes

OvalTune / Strawberry OvalTune



OvalTune is a software program that generates music and images in response to mouse gestures or "improvisational painting." OvalTune comes in two versions: regular, for a 512K Macintosh, Plus and SE; and Strawberry OvalTune, which produces color video on a Macintosh II and takes advantage of its internal sound capability. In addition to creating and colorizing patterns and pictures, OvalTune works as a powerful real-time MIDI controller with eight separate streams of output, each with its own musical material and way of reacting to the mouse. OvalTune can be used simultaneously with a MIDI keyboard — one hand "performs" with the mouse while the other hand, on the keys, supplies the musical material. Almost every parameter can be adjusted from the Macintosh keyboard by moving the mouse. Nine presets save music and painting settings for later recall.

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

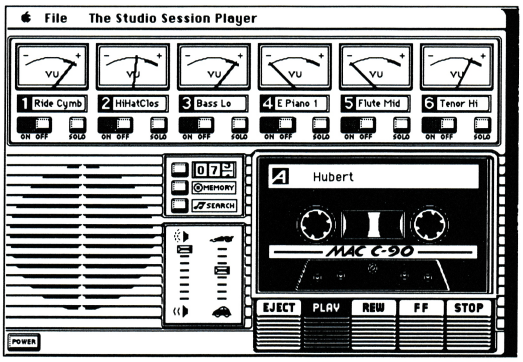
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $119 to $199

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes

Studio Session



Studio Session is a six-voice composition and performance package that uses the Macintosh's own digital sound capabilities. The program allows a user to edit and play back up to six voices of digitally sampled sounds, ranging from drums, cymbals and wind instruments to banjos, heavy-metal guitars and even the human voice. The Studio Session package includes an editor with a phrase library capable of storing a database of musical phrases by name. Its instrument palette is capable of using sounds from the MacNifty audio digitizer and Farallon's MacRecorder. Also included is a player with six analog VU meters and full tape-deck logic, including fast forward, rewind and eject for optional playback.

Bogas Productions
520 Cashew Ct.
San Ramon, CA 94583
415-829-2444

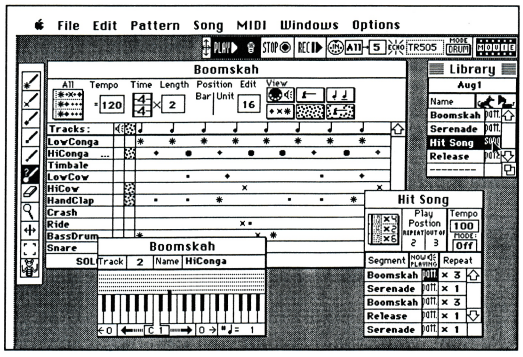
System Requirements
512K or larger Macintosh; SE or II.

Price $89.95

Support
A telephone hotline is available, as well as minor updates for the cost of shipping. Major updates are available for a nominal fee.

Uses MIDI
No

Upbeat



Upbeat is a rhythm programmer for MIDI drum machines and synthesizers. The program features MIDI recording and graphic editing, which allow the creation of rhythmic patterns in up to 32 tracks. Patterns can be linked into songs, and all patterns and songs can be stored and recalled. Compositions and performances can be done on a MIDI drum machine or synthesizer. The rhythms can be saved as MIDI files and used with other Macintosh music software. Upbeat features include random accent generation, automatic fill beats, a jam tool for improvisation, paste types for pattern design and a library window for storage and recall of patterns and songs.

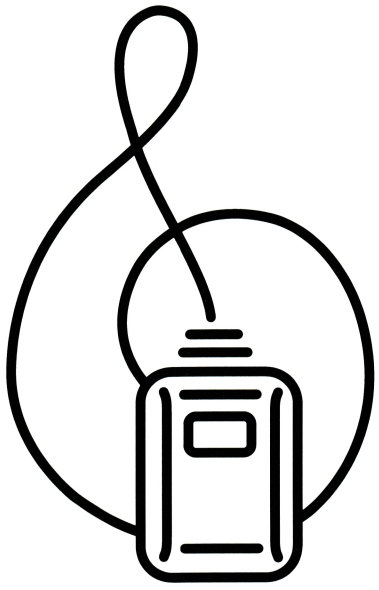
Intelligent Music
PO Box 8748
Albany, NY 12208
518-434-4110

System Requirements
512K or larger Macintosh; MIDI interface; synthesizer.

Price $150

Support
Telephone support, updates and a warranty are provided.

Uses MIDI
Yes



Hardware & Studio Software

There are a variety of hardware products that customize the Macintosh to the needs of the professional musician and music studio. In addition, there are software products that address the day-to-day needs and requirements of running the business end of a recording studio.

Altech MIDI Interface, Altech Dual MIDI Interface

The Altech MIDI Interface is an entry-level MIDI interface for the Macintosh. Features include low power circuitry (no batteries or external supply needed); full opto-isolation; and one MIDI In and three MIDI Out connections. The Altech Dual MIDI Interface is a low-cost, 1 MHz double MIDI interface. Features include a built-in power supply; full opto-isolation; and two MIDI In and six MIDI Out connections. The interface also features two modes of operation: It may be used as a twin interface by both ports on the Macintosh, or all six MIDI Out connections can be assigned to one port, eliminating the need for a separate "thru-box" in some setups.

Altech Systems
831 Kings Hwy., Ste. 200
Shreveport, LA 71104
318-226-1702

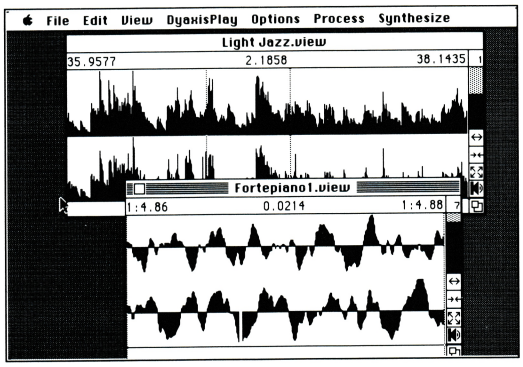
System Requirements
Macintosh Plus; SE or II for the single interface; 512K or larger Macintosh; SE or II for the dual interface.

Price $79.95 to $119.95
Includes cables.

Support
A 90-day warranty is provided.

Uses MIDI
Yes

Dyaxis



Dyaxis is a disk-based recording, editing and post-production tool. The system features three modules: a digital audio processor, which provides real-time stereo or mono direct-to-disk transfers; a two-and-a-half-hour, 16-bit stereo audio (44.1 KHz) mass-storage system; and a MacMix software package.

Integrated Media Systems
1552 Laurel St.
San Carlos, CA 94070
415-592-8055

System Requirements
Macintosh Plus; SE or II; 1 MB of RAM; accelerator card and large screen recommended for Plus or SE.

Price $6,995 to $12,500

Support
A one-year warranty on the processor and routine software upgrades are available.

Uses MIDI
Yes

JamBox/2 and Video JamBox

JamBox/2 is a full-featured SMPTE synchronizer that provides merging of two MIDI cables and adds synchronization to the merged MIDI output. Push buttons and an LED display on JamBox/2 allow for the operation of most functions. The full range of commands may be accessed via MIDI system exclusive commands from a Desk Accessory control panel. JamBox/2 supplies both SMPTE generation and reading in all frame formats (24, 25, 30 drop) and jam sync for regenerating a SMPTE signal, either to correct dropouts or to provide a duplicate SMPTE stripe on a second tape track. To sequence in sync to a video, JamBox can synchronize a MIDI sequencer to a SMPTE signal on the audio track of a VCR tape. After all the music for the video has been composed, it can be recorded on a multitrack audio tape deck along with the "jam-sync" SMPTE signal. JamBox/2 offers click sync for synchronizing to a live performer and has a 500 tempo change map, which may be sent to the sequencer via system exclusive messages or may be stored on the audio tape. Video JamBox offers all of the features of JamBox/2 in a 19-inch rackmount unit. In addition, Video JamBox includes direct synchronization to video frames and the ability to superimpose SMPTE frame numbers, metronome clicks and status information over a video signal (PAL and NTSC versions available). Video JamBox provides battery backup and five additional MIDI outputs.

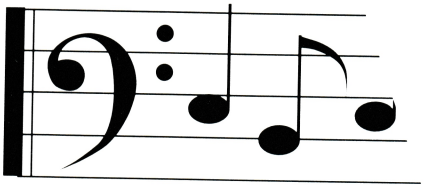
Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
Any Macintosh; MIDI interface.

Price $269 to $649

Support
A technical support hotline and upgrades for a nominal charge are provided.

Uses MIDI
Yes



JamBox/4+ MIDI Processor

JamBox/4+ MIDI Processor interfaces directly to all Macintosh computers and provides four important functions for the MIDI studio. These include MIDI Merging of four separate MIDI inputs, with real-time filtering and channel reassignment. The four separate and independent MIDI outputs can dramatically reduce MIDI delays on rhythmically tight sequences; SMPTE Time Code Synchronization with reading and generation of all SMPTE formats. The JamBox operates as a SMPTE to MIDI Time Code converter for cueing programs such as Q-Sheet and Cue. For MIDI sequences, including Southworth MidiPaint, Southworth One-Step and Mark of the Unicorn's Performer 2.0, the JamBox provides SMPTE Direct Lock for high precision and low overhead synchronization; a Macintosh MIDI interface operating up to four times faster than conventional 1 MHz MIDI interfaces. The high-speed isochronous communications mode allows the JamBox/4+ be operated up to 400 feet from the computer; and synchronization to an audio click track or other percussion audio source. Outputs include MIDI sync and DIN sync, for use with non-MIDI drum machines (TTL 5v. level) at 24, 48, 96 and 384 parts per quarter note. JamBox/4+ is housed in a brown, anodized, 19-inch rack-mountable enclosure. LEDs are provided for each MIDI input and output and for tempo. It includes a seven-day power backup for maintaining tempo and meter information (500 tempo changes) and various parameter settings. A back panel switch provides 1 MHz operation, for compatibility with older Macintosh MIDI software, or high-speed isochronous operation for newer high-performance MIDI software and for use with a Macintosh II. Other features include the ability to record four independent instruments at a time; channel routing to the four independent MIDI outputs; generation and reading of longitudinal time code at 24, 25 and 30 frames (drop and non-drop) per second; and "jam sync" for regeneration of SMPTE signals.

Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
Any Macintosh.

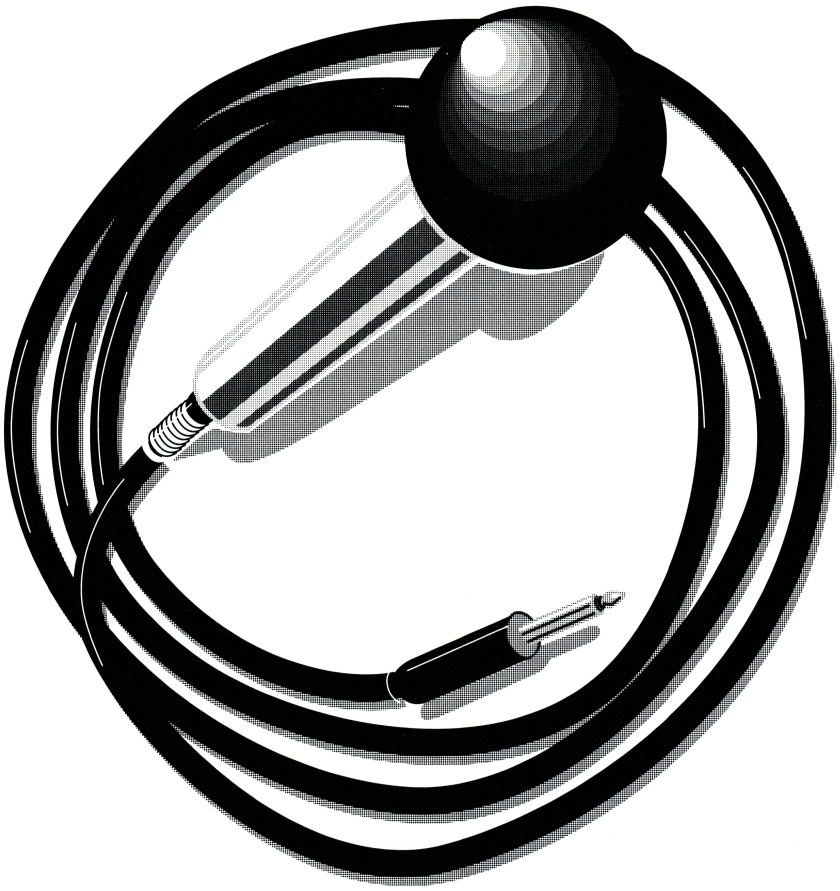
Price $459

Support
A technical support hotline and free minor updates are provided. Upgrades are available for a minimal fee.

Uses MIDI
Yes

MacFace

The MacFace MIDI interface is compatible with most major music software for the Macintosh. It attaches to both the modem and printer port on the back of the computer. By incorporating printer and modem throughput, both the modem and printer can be left on-line. The interface provides two Ins and six Outs/thrus and comes with a power supply, which allows it to serve as a standalone thru-box — even when the Macintosh is off. MacFace also has MIDI data indicators for both the MIDI In and Out for each serial port.



Sonus Corp.
21430 Strathern St. , Ste. H
Canoga Park, CA 91304
818-702-0992

System Requirements
512K or larger Macintosh; SE or II; music software for the Macintosh; MIDI-compatible synthesizer.

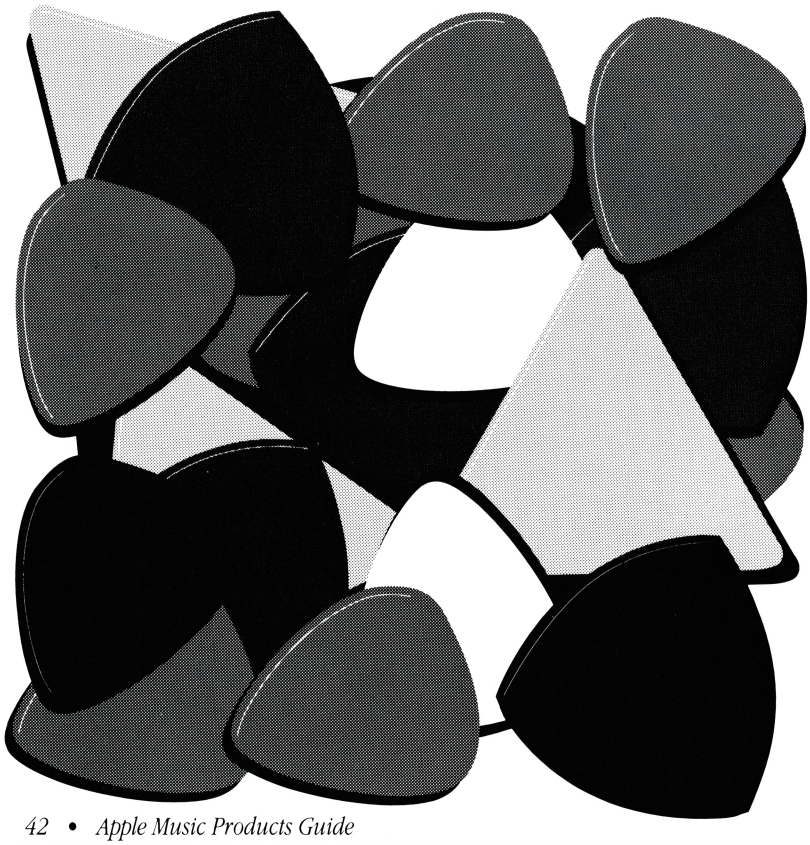
Price $239.95

Support
A one-year warranty and technical support are available.

Uses MIDI
Yes

Max Audio Digital Audio System

The Max Audio Digital Audio System provides direct audio recording to disk on a Macintosh SE and II with better than compact disc fidelity. Each Max Audio Analog Card provides two tracks (stereo) of A/D and D/A conversion. The sample rate is 192,000 per second with 20-bit samples (96,000 per second on a Macintosh SE). By comparison, a compact disc is recorded at 44,000 samples per second with 16-bit samples. The higher sample rate eliminates the need for many stages of filtering, which provide phase distortion of high-frequency audio. The greater sample size offers greater dynamic range with 120db signal-to-noise ratio. The Max Audio Analog card is based on three custom chips and a custom analog module, which supply data compaction of the digital audio for recording on a standard Macintosh II hard disk. This offers 48 minutes of ultrahigh fidelity stereo on a 149 MB hard disk. A companion Max Audio DSP card supplies a 24-bit Motorola 56000 Digital Signal Processing computer, 192K of 25ns static RAM and 3 MB of cached dynamic RAM. Typical uses of the DSP card include FFT analysis of audio signals; use as a 32-voice, 20-bit sample player; a 40-band digital equalizer; and as an effects processor for effects such as reverb and Doppler. A SMPTE Time Code/EBU Digital Audio interface card offers a SMPTE lock for digital audio recording/playback, which is precise to the sample time. It also provides standard EBU digital audio input and output for use with a DAT recorder, professional digital audio tape recorder or CD player with digital output. The Max Audio Sample Player card provides the ability to play up to eight simultaneous samples from internal memory on the card. Included are an independent amplitude envelope, pitch control and multiple loop points. All samples are stored on the card with 16X data compression and played back as 192 kHz 20-bit samples. Each sample player card has balanced stereo outputs.



Southworth Music Systems, Inc.
91 Ann Lee Rd.
Harvard, MA 01451
617-772-9471

System Requirements
Macintosh II; 140 MB hard disk drive recommended (SE edition will be available in summer 1988).

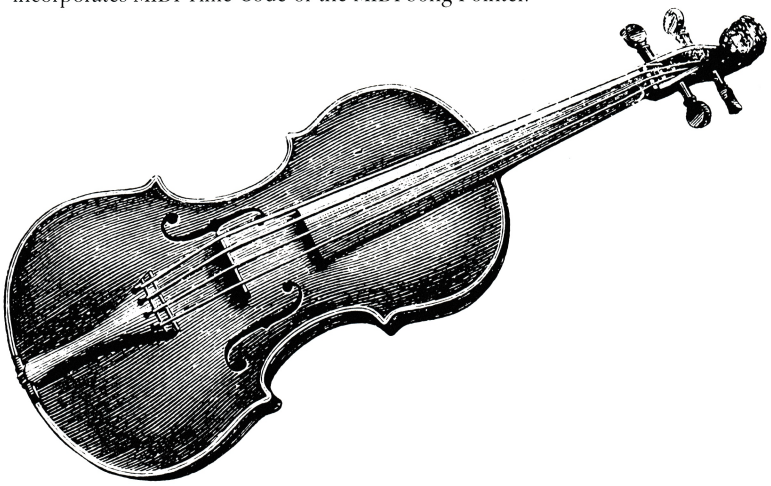
Price
Analog Card (Mac II) $1,400; Analog Card (Macintosh SE) $1,100; DSPNuBus Card (Mac II) $3,990; SMPTE Time Code/EBU DAT Interface (Mac II) available third quarter of 1988 $2,200; Sample Player NuBus Card (Mac II) available third quarter of 1988 $1,700

Support
A technical support hotline and upgrades at a nominal charge are provided.

Uses MIDI
Yes

MIDI Transport

MIDI Transport is a dual MIDI interface that incorporates SMPTE-to-MIDI Time Code conversions. The unit operates as a Macintosh MIDI interface or as a standalone MIDI/SMPTE synchronizer. Two MIDI Ins and five MIDI Outs, an Audio Tape In and Out, and an internal power supplied are provided. Designed for recording studio use with multiple MIDI instruments and tape, it can be synchronized to all SMPTE formats or its own variable-rate FSK signal. MIDI Transport can be used with software that incorporates MIDI Time Code or the MIDI Song Pointer.



Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

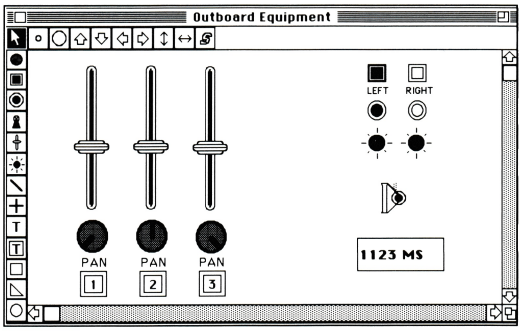
System Requirements
512K or larger Macintosh; SE or II; MIDI cables; MIDI-compatible software; any MIDI-equipped synthesizers, drum machine or other instrument.

Price $459.95

Support
A 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

Outboard Master



Outboard Master is recording studio software that allows a musician to create control panel templates for all the pieces of outboard equipment. Settings can be placed on the templates so they can be saved for future reference. The program supports color on a Macintosh II.

Studio Master Systems
229 Sunny Isles Blvd.
N. Miami Beach, FL 33160
305-945-9774

System Requirements
512K or larger Macintosh; SE or II.

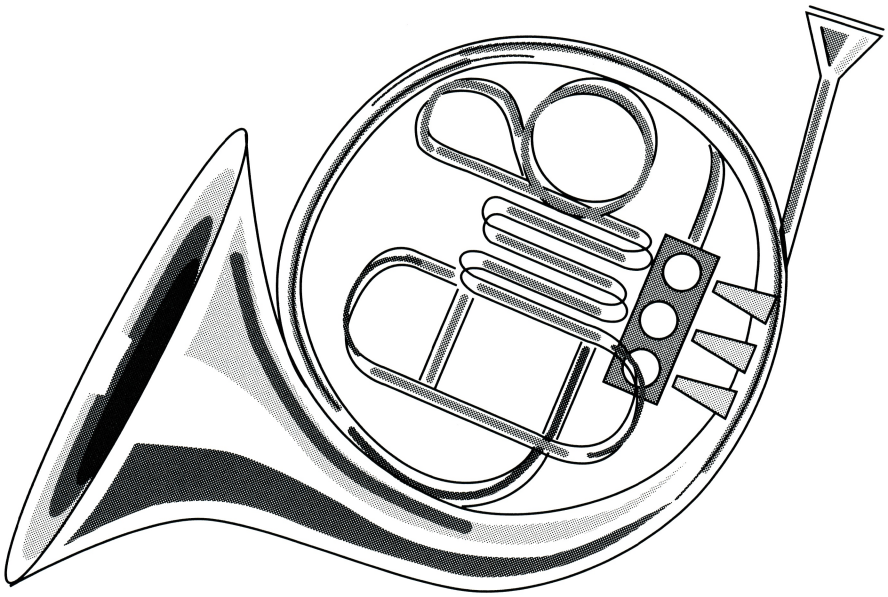
Price $300

Support
Free telephone support is provided.

Uses MIDI
No

Passport MIDI Interface

The Passport MIDI interface is compatible with Opcode Interfaces and provides MIDI In and MIDI Out for the Macintosh. In addition, Passport's family of interfaces provide industrywide compatibility with a large library of music software available from Passport and other companies.



Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

System Requirements
Any Macintosh; SE or II; any MIDI-equipped synthesizer or drum machine; Macintosh Adapter Cable required for use with Macintosh Plus, SE or II; sync to tape with external synchronizer box is optional.

Price $129.95
Macintosh Adapter Cable (required for Plus, SE or II) available for $25

Support
A 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

Pro RoomMate and Platinum RoomMate

Pro RoomMate is the top-of-the-line RoomMate self-powered speaker by Bose. Only 6 by 9 by 6 inches, Pro RoomMate features a built-in amplifier, an active equalization system with distortion-limiting circuitry, a volume control, two pairs of stereo line-level RCA connectors (1K ohms and 10K ohms), a 3-foot RCA-to-RCA connector and adaptors. The system works with any keyboard or synthesizer and plugs directly into the headphone jack of a Macintosh or Apple IIGS. It comes packed with special mounting arms that attach to any keyboard stand, console or desk. Platinum RoomMate is a self-powered loudspeaker featuring a 4.5-inch, full-range driver; a dual-channel amplifier; an active equalization network; and distortion-limiting circuitry. Only 6 by 9 by 6 inches, the grille and cabinets match the Apple IIGS and feature a special Bose/Apple color logo. Platinum RoomMate plugs into the headphone jack of an Apple IIGS and Macintosh and works with most keyboards.

Bose Corp.
100 The Mountain
Framingham, MA 01701
617-879-7330

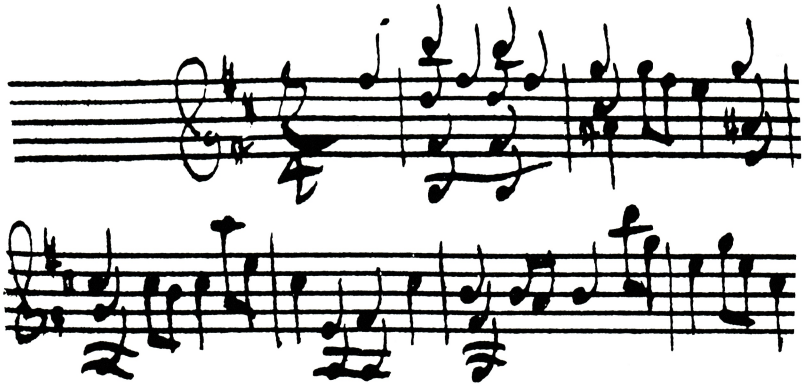
System Requirements
Any Macintosh; Apple IIGS.

Price $229 to $399
Platinum RoomMate $229 per system; Pro RoomMate $399 per system (includes mounting arms; travel bag and power microphone available for the Pro RoomMate at extra cost)

Support
A one-year warranty and free technical support are available.

Uses MIDI
Yes

Rack II

The Rack II, a ruggedized version of a Macintosh II computer, is designed for use in audio and video studios, laboratories, moving vehicles and other environments where constant shipping and relocation of the Macintosh is required. Special features include: 40G shock mounting, dual internal hard disk drives, enhanced RFI/EMI shielding and a remote video and desktop bus connection. The Rack II is compatible with all existing Macintosh II expansion cards.

Julian Systems, Inc.
2280 Bates Ave., Ste. J
Concord, CA 94520
415-686-4400

System Requirements
Macintosh II; must be controllable to NTSC frequencies.

Price $4,500 and up

Support
Telephone support and on-site and carry-in service contracts are available.

Uses MIDI
Yes

The Sound Accelerator

The Sound Accelerator is intended to significantly enhance the Macintosh as a sound editing and synthesis workstation. The Sound Accelerator provides CD-quality (high-sample-rate, 16-bit linear) playback of individual sounds directly from the Macintosh. In addition, it performs virtually any DSP application in real time. Currently capable of working in conjunction with Digidesign's Sound Designer and Softsynth software, the Sound Accelerator provides the basis for a variety of future programs — from other developers as well as Digidesign — requiring high-quality playback and other digital high-speed signal processing capabilities.

Digidesign, Inc.
1360 Willow Rd., Ste. 101
Menlo Park, CA 94025
415-327-8811

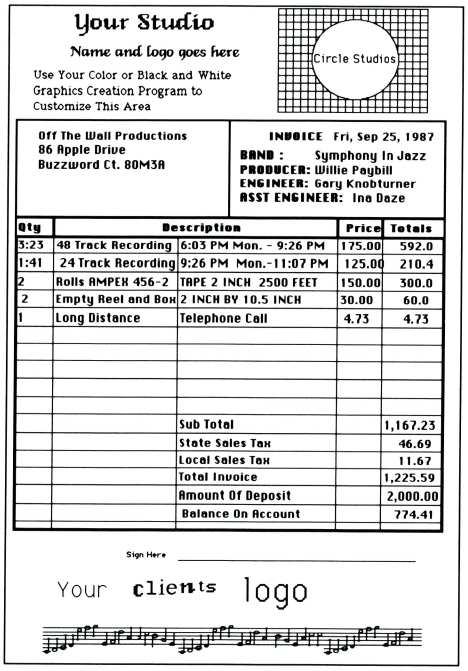
System Requirements
Macintosh SE or II; Sound Designer or Softsynth.

Price $995

Support
Full support for registered owners is provided.

Uses MIDI
Yes

Studio Master


Your Studio
Name and logo goes here
Use Your Color or Black and White Graphics Creation Program to Customize This Area
Circle Studios
Off The Wall Productions
86 Apple Drive
Buzzword Ct. 80M3A
INVOICE Fri, Sep 25, 1987
BAND : Symphony In Jazz
PRODUCER: Willie Paybill
ENGINEER: Gary Knobturner
ASST ENGINEER: Ina Daze
Qty | Description | | Price | Totals
3:23 | 48 Track Recording | 6:03 PM Mon. - 9:26 PM | 175.00 | 592.0
1:41 | 24 Track Recording | 9:26 PM Mon.-11:07 PM | 125.00 | 210.4
2 | Rolls AMPEX 456-2 | TAPE 2 INCH 2500 FEET | 150.00 | 300.0
2 | Empty Reel and Box | 2 INCH BY 10.5 INCH | 30.00 | 60.0
1 | Long Distance | Telephone Call | 4.73 | 4.73
Sub Total 1,167.23
State Sales Tax 46.69
Local Sales Tax 11.67
Total Invoice 1,225.59
Amount Of Deposit 2,000.00
Balance On Account 774.41
Sign Here
Your clients logo

Studio Master is a time and materials billing software program for a recording studio. It simplifies a studio owner or manager's job of setting the pricing on different products offered by his studio, such as recording time, tape or outboard equipment usage. It also facilitates record keeping for different types of customers, helps to modify rates and handles itemization and the addition of special charges. Integrated with the software program are two systems: track-sheet generation and tape-label generation. The program supports color on a Macintosh II.

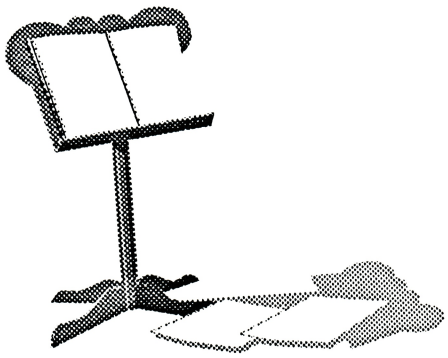
Studio Master Systems
229 Sunny Isles Blvd.
N. Miami Beach, FL 33160
305-945-9774

System Requirements
512K or larger Macintosh; SE or II.

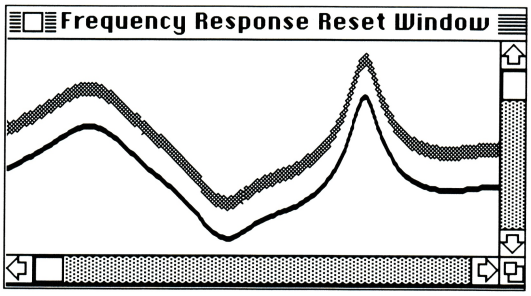
Price $2,500

Support
A free telephone support hotline and periodic updates are available.

Uses MIDI
No



Studio Master Plus with CCL



The Studio Master Plus with CCL (Console Control Logging) stores and recalls the position of all knobs on the mixing console. It works with all mixing consoles (one to 72 channels) and does not require that any modifications be made to the mixing consoles. A hardware interface is provided that attaches to both the mixing console and Macintosh. Integrated with the software program are systems for studio billing, track-sheet generation and tape-label generation. The program supports color on a Macintosh II.

Studio Master Systems
229 Sunny Isles Blvd.
N. Miami Beach, FL 33160
305-945-9774

System Requirements
512K or larger Macintosh; SE or II; any mixing console.

Price $12,500

Support
A free telephone support hotline and periodic updates are available.

Uses MIDI
Yes

Studio Plus Two Interface and The Professional Plus Interface

The Studio Plus Two has two MIDI Ins and six MIDI Outs and sits conveniently under a Macintosh to conserve workspace. The two independent MIDI Ins allow syncing and recording at the same time, as well as recording from two MIDI keyboards simultaneously. The six MIDI Outs provide the power to keep data moving using both ports. It includes Modem and Printer "Thru" switches that allow a user to keep the normal MIDI setup connected while printing or using the modem, as well as use the MIDI when there is no Macintosh attached or when using other applications. A third switch allows a user to connect all six MIDI Outs together. LEDs on the front panel display MIDI activity. Studio Plus Two is available with cables for a 512K Macintosh or Plus/SE. The Professional Plus Interface attaches to the modem port or printer port on the Macintosh. It provides one MIDI In and three MIDI Outs, which may be connected to any synthesizer, drum machine or other MIDI device using standard MIDI cables. The interface includes cables for either a 512K Macintosh or a Macintosh Plus. Opcode MIDI interfaces feature opto-isolated MIDI Ins, which eliminate ground loops, hum and whine, and ensure the system conforms completely to MIDI specifications.

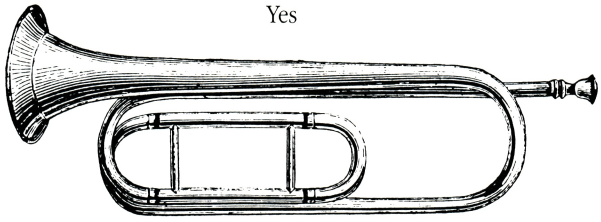
Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

System Requirements
512K or larger Macintosh; SE or II; any MIDI synthesizer.

Price $150 to $275

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes



Timecode Machine

The Timecode Machine converts SMPTE Time Code to MIDI Time Code at a fraction of the cost of other SMPTE/MIDI conversion units. The Timecode Machine handles all practical applications that use SMPTE time code to sync audio or video tape with MIDI and sequencer tracks. Conversions are possible from SMPTE to both the new industry standard MIDI Time Code signal or the non-standard "direct time lock" currently used by Mark of the Unicorn's Performer. With a computer, the Timecode Machine can strip a SMPTE time code onto tape. The Timecode Machine reads and writes all varieties of SMPTE, including 24 frame, 25 frame, 30 frame and drop frame. It is extremely tolerant of bad tape, generating steady MIDI Time Code even if the SMPTE track being read contains dropouts or invalid data.

Opcode Systems
1024 Hamilton Ct.
Menlo Park, CA 94025
415-321-8977

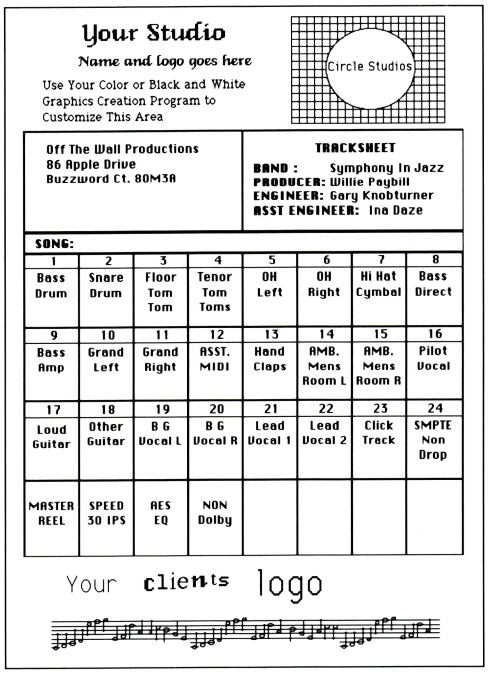
System Requirements
512K or larger Macintosh; SE or II; MIDI interface; synthesizer.

Price $300

Support
A full warranty, technical support and updates to registered users for difference in list price between products are provided.

Uses MIDI
Yes

Track Master



Track Master is a recording studio software program that features track-sheet and tape-label generators that simplify the two most common forms of paperwork required in a recording studio. The program supports color on a Macintosh II.

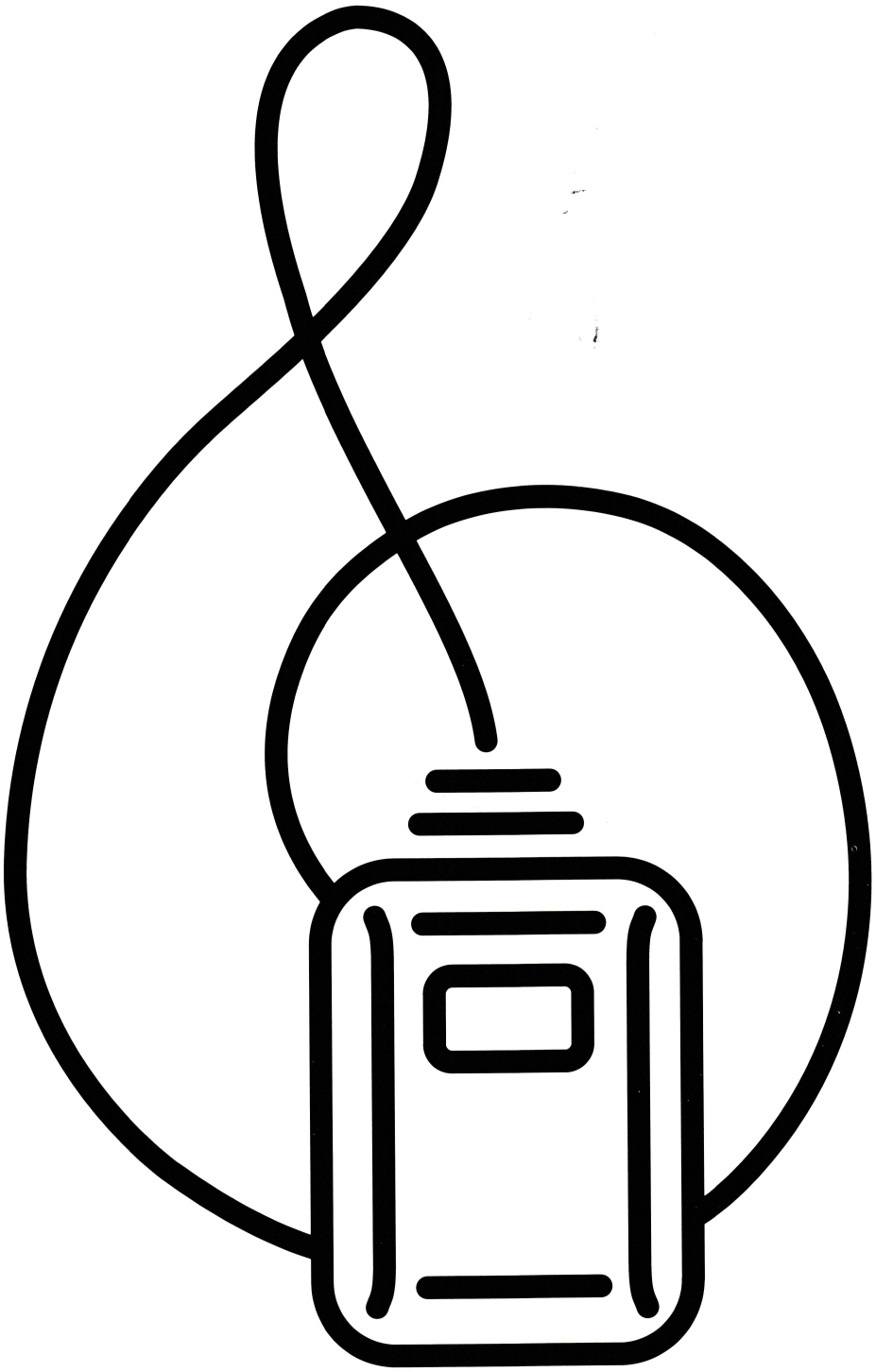
Studio Master Systems
229 Sunny Isles Blvd.
N. Miami Beach, FL 33160
305-945-9774

System Requirements
512K or larger Macintosh; SE or II.

Price $800

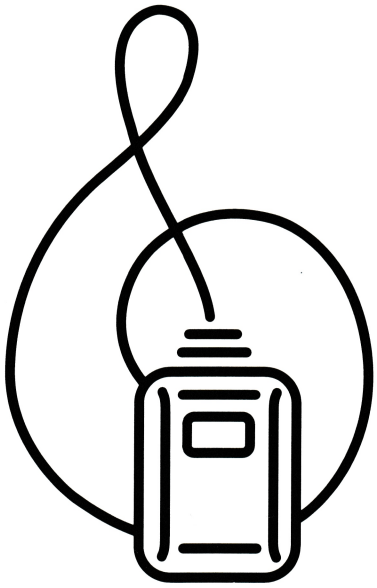
Support
Free telephone support and periodic updates are available.

Uses MIDI
No



Apple IIGS

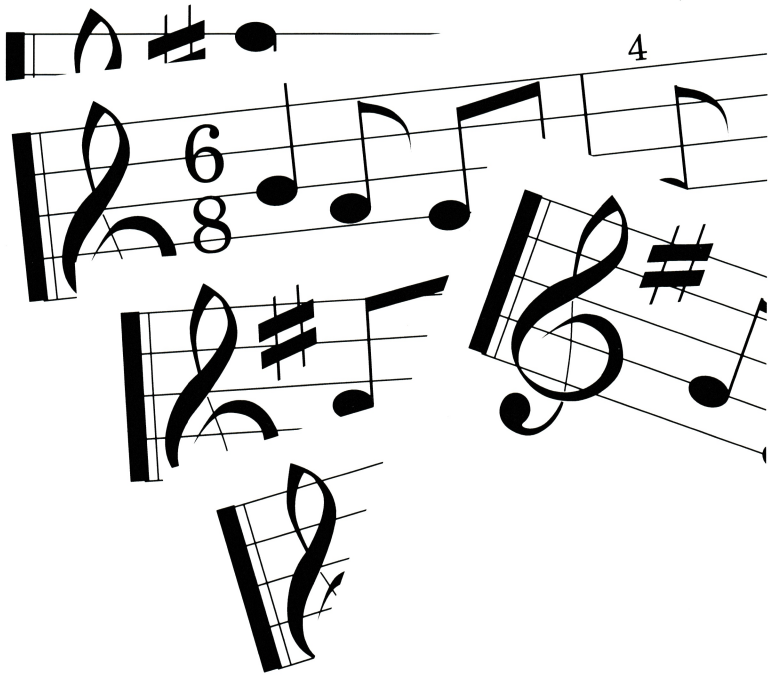
The Apple II is the leading computer used by kindergarten through high school educators, and music educators are no exception. With its built-in Ensoniq sound chip, the Apple IIGS is a versatile tool for enhancing music education and unleashing personal musical creativity. More and more developers are unleashing the power of the Apple IIGS' inherent sound capabilities with creative hardware and software.



Composition

Playing or writing a piece of original music, or perfecting a "music classic," is the ultimate reward for the hours of practice a music student or enthusiast may devote to honing his/her musical skills. With sequencing and composition software, a single individual has the ability to write, arrange and play all the parts of a composition. The individual may also experiment with and change any part of the piece as desired.

Master Tracks Jr.

With Master Tracks Jr., a user can compose, arrange and orchestrate music with one program. Real-time, step-time and song-mode sequencing is available in one easy-to-use, 16-channel package.

Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

System Requirements
Apple IIGS; disk drive; Passport MIDI Interface Card; one or more MIDI-equipped synthesizers; game paddles or joystick; tape recorder and a conventional or MIDI drum machine are optional.

Price $249.95

Support
A 90-day warranty and a customer service department are available. Upgrades are available for a reduced cost.

Uses MIDI
Yes

MIDI/8 Plus

MIDI/8 Plus is an eight-channel recording program that incorporates multitrack tape recorder qualities, including unlimited overdubs, real-time editing and tempo control, records key velocity, pitch bend, preset changes, aftertouch and modulation controllers. The program's overdubbing capabilities are designed to create up to eight independent parts that can be assigned to any MIDI channel.

Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

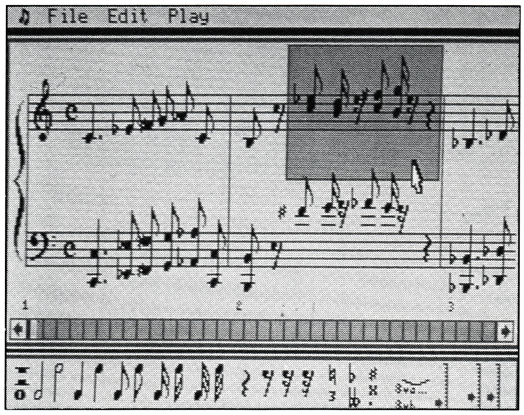
System Requirements
Apple IIGS; one disk drive; monitor; any MIDI synthesizer; Passport MIDI Interface.

Price $249.95

Support
Reduced price upgrades, a 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

Music Construction Set



With Music Construction Set, an individual can create and play music using traditional notation. The software program's features include an easy-to-use interface that follows the standard IIGS interface, the ability to create high-quality sheet music on an ImageWriter, the selection of dozens of digitized instruments and the playing of up to 15 voices at one time using two different instruments.

Electronic Arts
1820 Gateway Dr.
San Mateo, CA 94404
415-571-7171

System Requirements
Apple IIGS; ImageWriter.

Price $49.95

Support
A customer service telephone line is available.

Uses MIDI
Yes

Polywriter Music Printing Series and Polywriter Utilities

Polywriter Music Printing series is software that records music played on synthesizers into a computer. It translates the music into music notation and displays it on the computer screen. The music can be scored in any key, meter or tempo. Notes can be added or removed, keys transposed and lyrics or other markings typed in after the music is recorded and transcribed. Up to 28 discrete, individually recorded polyphonic parts can be printed in correct order. The program handles ties, beaming, split-stemming, enharmonics, double-sharps, double-flats, seconds and 8 VAs and accurately notates chords with up to 16 voices. Polywriter Utilities is designed for integrating Passport MIDI software programs by allowing the exchange of data between music recording and printing programs. For example, music scores can be converted to recorded music and sequences transcribed as sheet music. The program provides printing capabilities for Master Tracks Pro, Master Tracks and MIDI/8 Plus.

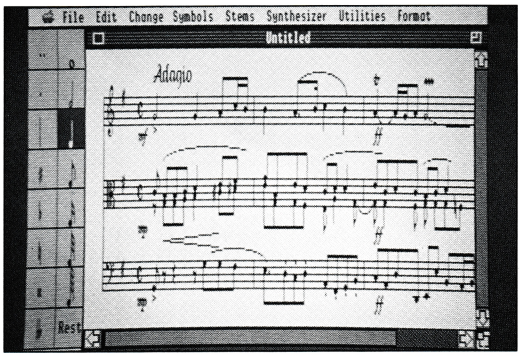
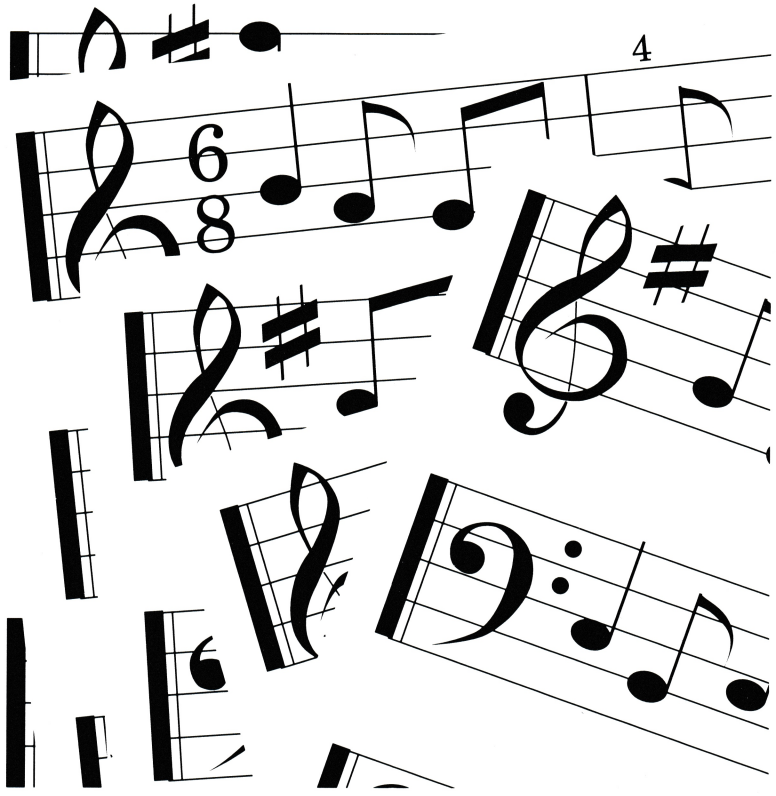
Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

System Requirements
Apple IIGS; one or two disk drives recommended; video monitor; any MIDI-equipped keyboard and interface; printer.

Price $99.95 to $299.95
Polywriter Music Printing Series $299.95; Polywriter Utilities $99.95.

Support
Reduced price upgrades, a 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

Pyware Music Writer

The Pyware Music Writer was designed specifically for an Apple IIGS and is suitable for a music hobbyist and music professional. It offers many features not found in other music writing programs, such as an unusually wide variety of symbols that may be entered with the mouse or through a MIDI-compatible keyboard. When using a MIDI keyboard, music may be entered in real time or step time for those not yet comfortable with keyboard playing. An individual has complete control of symbol placement, with automatic stem changing during transposition and automated error checking. Lyrics and text are automatically placed under their corresponding notes. Fast and easy input and editing can be done in a variety of ways, including copy, cut, paste, transpose, auto bar and auto beam. MIDI In and Out capabilities are supported, as is the Apple IIGS Ensoniq chip. Samples of songs are included for "listening pleasure" or to experiment with. Any Music Writer file can be printed to an ImageWriter or LaserWriter printer. The Music Writer can print an entire score and/or any range of individual parts. Pyware supports a music hobbyist with a step-by-step guide to basic music theory. An individual will learn to actually create a passage of music and hear it played back through the Ensoniq sound chip. Pyware supports a music professional with a powerful notation and composition program written for the Apple IIGS.

Pygraphics
125 East Worth St.
Grapevine, TX 76051
800-222-7536

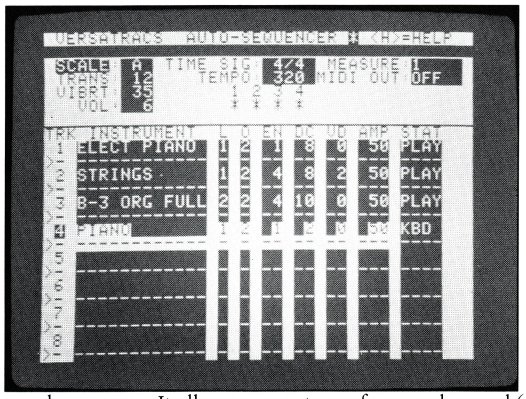
System Requirements
Apple IIGS; 768K; printer; In and Out capabilities require a MIDI interface.

Price $119 to $595

Support
Toll-free technical support and updates are available.

Uses MIDI
Yes

VersaTracs


VERSATRACS AUTO-SEQUENCER II <H>=HELP
SCALE A TIME SIG 4/4 MEASURE 1
TRANS 12 TEMPO 320 MIDI OUT OFF
VIBRT 35
VOL 6
TRK INSTRUMENT L O EN DE VO AMP STAT
1 ELECT PIANO 1 2 1 8 0 50 PLAY
2 STRINGS 1 2 4 8 2 50 PLAY
3 B-3 ORG FULL 2 2 4 10 0 50 PLAY
4 PIANO 1 2 1 12 0 50 KBD
5
6
7
8

VersaTracs is an integrated software package designed for comprehensive music processing using the IIGS sound chip. Using VersaTracs, the parameters of sound can be entered, saved, processed, sequenced, played and edited in real time under computer control. The program combines the flexibility of digital synthesis with the editing power of a word processor. It allows a user to perform and record (via a MIDI keyboard) infinite permutations of digital sound in real time, creating orchestrations that can be played on a user's stereo. Features include: a 15-voice polyphonic sequencer with independent assignment of "instruments" to voices, 160 instrument definitions on-line, mixdown/playback with note-by-note control over the parameters of sound, a built-in metronome, a loop mode for repeating sequences while recording, instrument construction using a library of 48 waveforms and 48 multistage envelopes, seamless real-time editing and a pitch/rhythm sequencer.

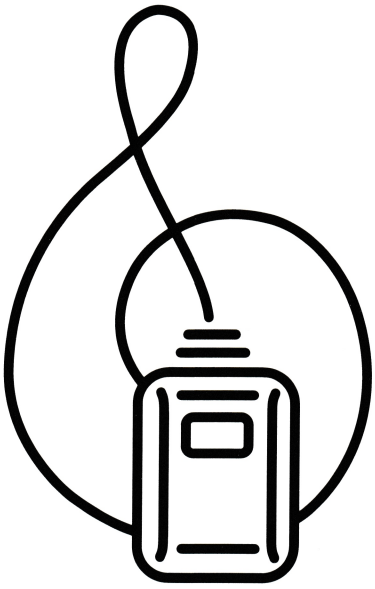
Market Interface, Inc.
126 S. State St.
Roodhouse, IL 62082
217-589-4832

System Requirements
Apple IIGS; one 5.25 drive; 256K RAM card; MIDI keyboard; interface card.

Price $99.95

Support
A 90-day warranty on hardware, free software updates for one year and technical support are available.

Uses MIDI
Yes

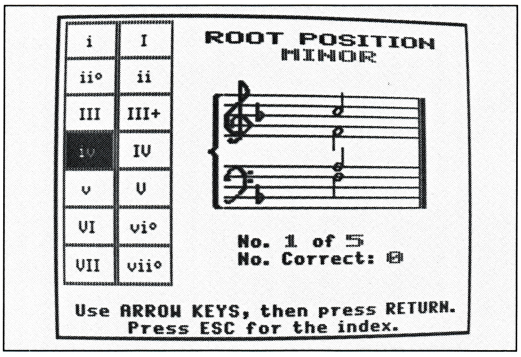


Education

Music is a unique language that requires time and practice to learn. No computer can replace the skills and techniques of an accomplished music instructor. But with the appropriate software, a computer can be an instructor's tireless teaching assistant or a student's own private music tutor.

There are many products that can assist a music student in learning the basics of music theory, including music notation, chord construction, ear training and instrument performance skills.

Educational Software Products



ECS has 39 educational music software products for the Apple IIGS. Categories include: Software for Beginners (K-8), Theory and Note Reading, Instrumental Techniques, Tonal Memory and Music Appreciation. MIDI software includes the 21st Century Music Series and software for beginning, intermediate and advanced levels.

Electronic Courseware Systems, Inc.
1210 Lancaster Dr.
Champaign, IL 61821
217-359-7099

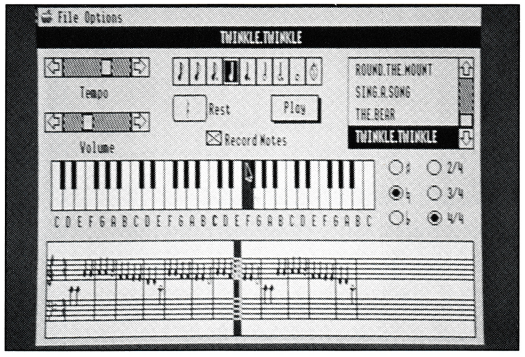
System Requirements
Apple IIGS; one disk drive; monitor; MIDI interface; keyboard.

Price $12.95 to $219.95

Support
A warranty is available.

Uses MIDI
Yes

KidsTime II



KidsTime II for the Apple IIGS, adapted from Great Wave's KidsTime for the Macintosh, includes two programs: KidsNotes, described below, and ABKey, a letter-recognition/keyboard-skill program. KidsNotes is a program that allows children to experiment with the basic elements of music, such as rhythm, pitch, duration, tempo, volume, and simple time and key signatures. An assortment of simple melodies, including nursery rhymes, is included on the disk. One-note melodies can be entered using the mouse or the computer keyboard. When the melodies are played back, the notes are highlighted on the screen's piano keyboard and on the musical score. Music entered into the program may be saved, played and edited. The manual fully explains the program and contains "Notes to the Musically Unsure" to help parents and children understand some basic musical concepts.

Great Wave Software
5353 Scotts Valley Dr.
Scotts Valley, CA 95066
408-438-1990

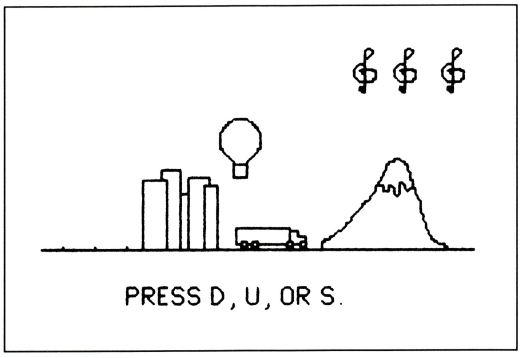
System Requirements
Apple IIGS; 512K.

Price $39.95

Support
Telephone support, updates and a 90-day warranty are provided, as well as a newsletter with tips and upgrade information.

Uses MIDI
No

Micro Music Software Library



The Micro Music Software Library includes 25 titles available in the following categories: Ear Training, including Melodic Dictation, Harmonic Dictation, Rhythmic Dictation, Error Detection and Early Childhood; Instrument Tutors; Music Fundamentals; Music Theory; Symbols, Vocabulary and History; and Composition.

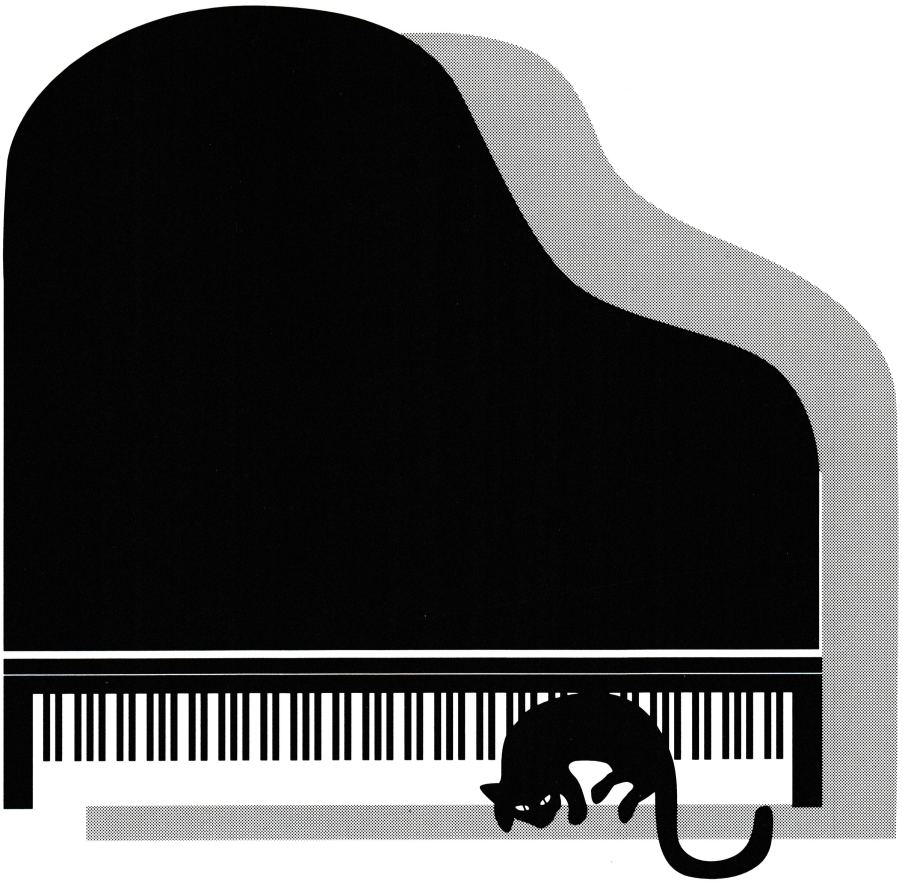
Temporal Acuity Products, Inc.
300 120th Ave., NE, Bldg. 1, Ste. 200
Bellevue, WA 98005
206-462-1007

System Requirements
Apple IIGS; DAC board optional; 3.5 or 5.25 disk drive; color or monochrome monitor

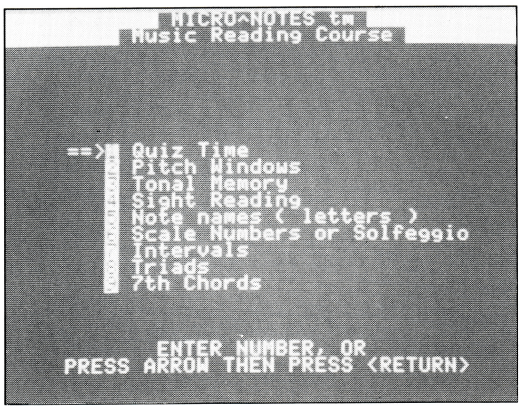
Price $40 to $350

Support
A toll-free telephone hotline for technical support and a warranty are provided.

Uses MIDI
No



Micro^Notes



Micro^Notes Music Reading Course is a computer-aided music instruction package for the Apple II Plus, IIe and IIGS. Designed to teach music reading skills via microphone input, the software is an integration of various activities that use a musical biofeedback concept to help develop musical skills. With Micro^Notes, a user can "see" as well as hear intonation when singing or playing an instrument and while reading music notation from the computer screen. A pointer on the monitor moves with a user's pitch and shows whether it is sharp or flat. For reinforcement, correct pitches are played by Micro^Notes on a MIDI synthesizer (II Plus and IIe versions) or the IIGS' sound chip (IIGS version.) Teachers can incorporate ear-training and sight-reading methods and materials into the structure of Micro^Notes to create course data or modify course materials in the package. Student enrollment, course definition, composition of musical exercises via a MIDI keyboard and a test generator are among the utilities integrated into the software. The course is divided into two major areas of study (sold separately): Independent Studies in Pitch and Harmony and Independent Studies in Rhythm. Each lesson is divided into two learning activities: music theory and music performance. The theory is presented in the student guide, Micro^Notes MusicTheory, in a progressive order that will introduce the music facts required to pass the performance tests on the computer. Following each performance activity, the student is tested on a computer-generated multiple-choice test that measures understanding of the concepts presented in Micro^Notes MusicTheory and the performance activities. The course is recommended for high school and college students, but the software is applicable for kindergarten through adults.

Market Interface, Inc.
126 South State St.
Roodhouse, IL 62082
217-589-4832

System Requirements
Apple II Plus, IIe or IIGS; two 5.25-inch drives; headphones or amplifier; MIDI synthesizer external keyboard and interface card (for II Plus and IIe only).

Price $495
Includes Micro^Pitch microphone interface card, microphone, software, student manual, teacher manual and music theory textbook.

Support
A 90-day warranty on hardware, free software updates for one year and technical support are available.

Uses MIDI
Yes

The Music Class Series

The Music Class Series is five complete, self-paced courses that teach students how to read notes and music symbols, how to follow rhythms and how to listen to a piece of music. Sound, graphics and animation make learning fun. On-screen lessons in plain English lead a student from one concept to the next. Easy enough for beginners yet challenging enough for pros, the Music Class Series is recommended for ages 8 and up. The five parts of the Music Class Series include: Fundamentals, a thorough introduction to the basics of music; Rhythm, an entertaining lesson in rhythmic structure, meter, measures and pulse; Ear Training; Music Symbols, learning the symbols and words of musical language through animated graphics and games; and Note Reading. Every course in the Music Class Series also comes with a state-of-the-art record keeping program for up to 125 students. *Coda Music will be available on the IIGS in the spring, 1988.

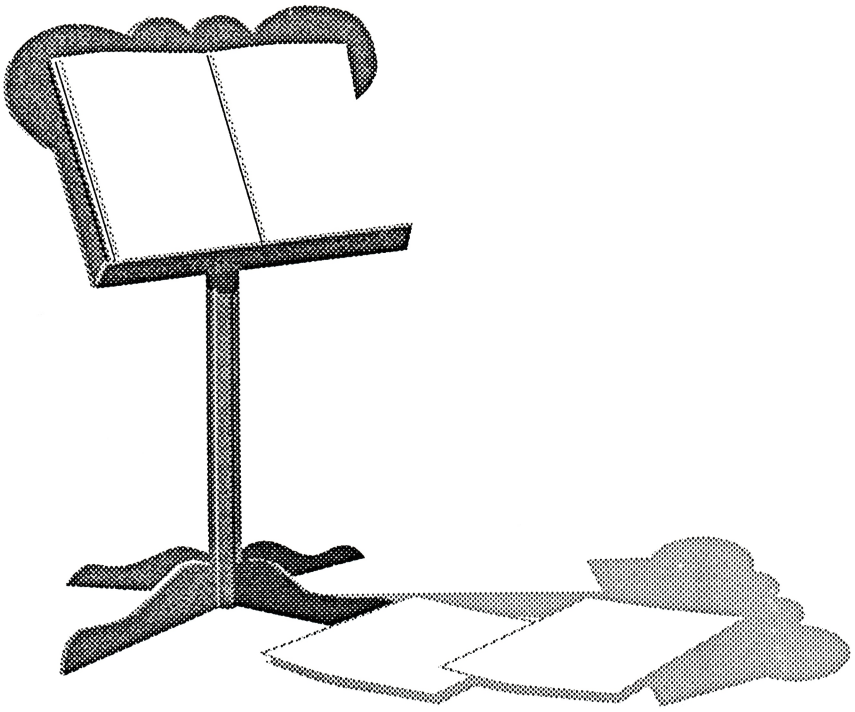
Coda Music Software
1401 East 79th St.
Bloomington, MN 55420
800-843-1337

System Requirements
Apple IIGS*.

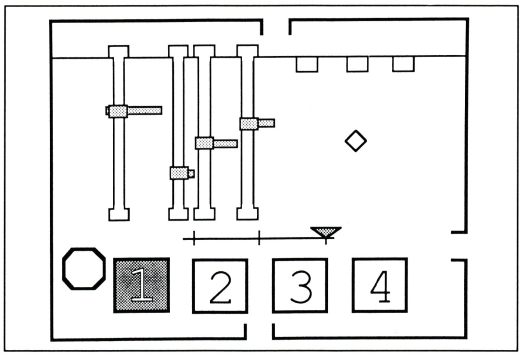
Price $39 to $195
Each module is priced individually: Fundamentals $49; Rhythm $49; Ear Training $49; Music Symbols $39; Note Reading $39. All five modules together $195.

Support
A toll-free number for technical support and customer service are provided, as well as warranties.

Uses MIDI
Yes



MusicShapes



MusicShapes is a creative learning environment whose goal is to stimulate creative thinking and enhance musical understanding through active involvement in music composition. As in clay modeling, a user actively molds and shapes a musical idea, listens, reacts then reflects on it — generating new ideas and abstracting underlying concepts of musical form and structure. MusicShapes is based on two ideas: Children and adults learn best by doing, and music is made up of chunks of musical events positioned sequentially and concurrently with each other. The program consists of a series of adjacent "workrooms" where a user shapes and tests musical patterns, trying out different pitches, rhythms, tempos, note durations and instrument sounds (including envelope building). The resulting musical event is stored in a small graphic box. These boxes can be transposed, sequenced and put together into bigger boxes by moving them up and down on graphic "elevators." The boxes are then arranged on four shelves, the equivalent of a four-track recorder. After making the final composition, it is easy to go back and change a parameter to test a "what-if" hypothesis. The final composition, which can be as long as 25 minutes, can be saved in a file. The program supports the Casio CZ-101, 1000 or 5000; Yamaha FB 01, Roland MT 32 and Casio HT 700.

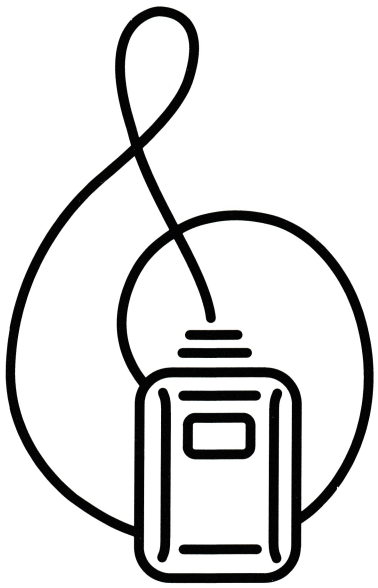
Music Systems For Learning, Inc.
311 East 38 St., Ste. 20C
New York, NY 10016
212-661-6096

System Requirements
Apple IIGS; Apple MIDI device (optional).

Price $175

Support
Telephone support, training and a 60-day warranty are available.

Uses MIDI
Yes

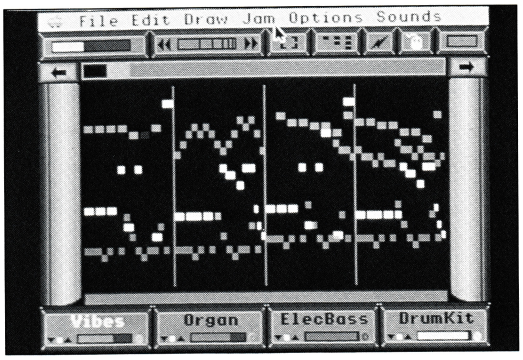


Creativity

To novice and reborn musicians, the thought of confronting a keyboard can sometimes be intimidating. However, there is music software available for the Apple II that allows individuals to explore the various aspects of music without understanding how to read a note or play a keyboard. Programs that represent music through shapes and colors — rather than as notes on a staff — and use the mouse — rather than a musical keyboard — as an instrument can open up the world of music to anyone.

And for those accustomed to more conventional tools, there is a wealth of music software that uses MIDI-equipped synthesizer keyboards as the key to creativity.

Instant Music



Instant Music is a software program that allows an individual to create and play music instantly with no musical training required. Sophisticated artificial intelligence techniques make sure that the music is always played in the right rhythm and key. Features include the ability to play a lead instrument by "mousejamming" while the computer plays backup, the creation of professional-sounding music by merely drawing a line with the mouse and the selection of dozens of digitized instruments to use in your compositions.

Electronic Arts
1820 Gateway Dr.
San Mateo, CA 94404
415-571-7171

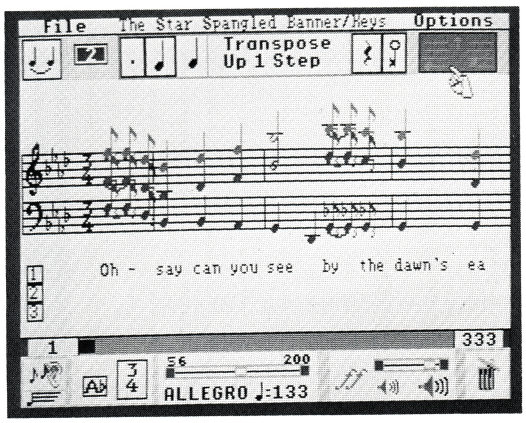
System Requirements
Apple IIGS; 512K.

Price $49.95

Support
Telephone support is provided.

Uses MIDI
MIDI output by summer of 1988

The Music Studio 2.0



The Music Studio allows novices to create music instantly without knowledge of musical notation. The program includes composition and editing features that experienced musicians require, such as MIDI output to play songs through MIDI-equipped instruments and the ability to adjust MIDI parameters for full control over professional MIDI equipment.

Experienced musicians can use the Waveform Editor to edit existing instruments and create new ones. A user can add verses of lyrics to any song and print the sheet music and lyrics.The Music Studio allows a user to choose from among preprogrammed instruments, sound effects and voice; transpose to any key automatically; and add ties and slurs, repeats, dotted notes and triplets. Most importantly, the program has real-time MIDI input.

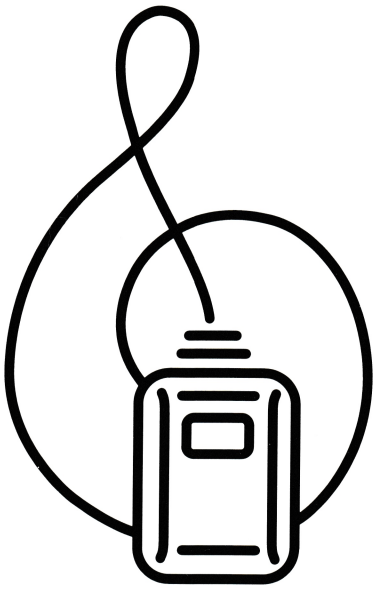
Activision
2350 Bayshore Pkwy.
Mountain View, CA 94039
415-960-0410

System Requirements
Apple IIGS; 512K; MIDI interface required to use MIDI feature.

Price $99.95

Support
A 90-day warranty with free replacement is provided. If the product fails after the warranty, the replacement cost is $7.50.

Uses MIDI
Yes

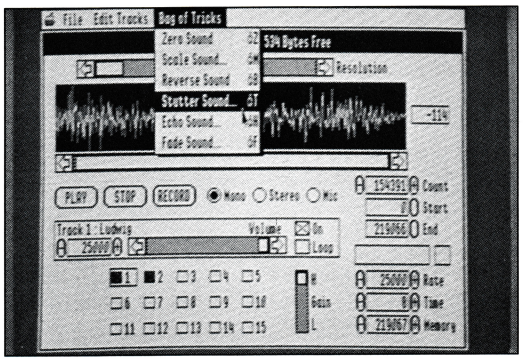


Hardware

The wide variety of hardware products available for the Apple IIGS help make it an even more powerful instrument for the budding musician.

Stereo cards and audio digitizers can add dramatically to the impact of music software.

FutureSound



FutureSound is a digital stereo sound sampler and stereo output board for an Apple IIGS. It records stereo tracks simultaneously from a direct line input (compact disc, tape player, portable stereo), can record in mono and includes a microphone for recording speech or sound effects. The sampling rate is variable, including up to 31,500 samples per second for mono recordings; 19,500 per track in stereo. The software provided allows maximum flexibility in editing sound samples. Fifteen separate tracks are supported, including a visual graph of the sound wave for easy editing. Any number of tracks can be played at one time. A user can mix tracks together, erase all or part of a track, or cut and paste smaller sections of sound. Special editing options include loops, reversing, fade in and out, echo and stutter effects. The software also contains a VU meter and an on-screen gain control to achieve the best possible recordings. For precise editing, a user can view a sound graph at variable magnifications down to a byte-by-byte level. Sounds can be output to a tape or video recorder or saved to disk. The ASIF format is supported for compatibility with music programs. Routines in C and Basic are supplied for programmers who want to use their sounds in their own programs.

Applied Visions, Inc.
One Kendall Sq., Ste. 2200
Cambridge, MA 02139
617-494-5417

System Requirements
Apple IIGS; 512K; 1 MB of RAM recommended.

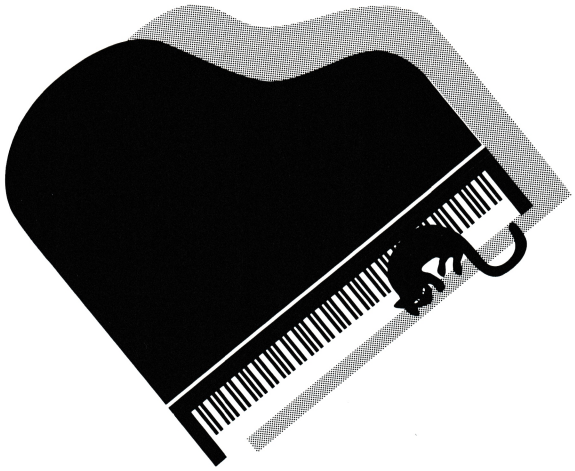
Price $279
Includes hardware, software, microphone and cables.

Support
Telephone support is provided.

Uses MIDI
Yes

Passport MIDI Interface with Drum Sync and Passport MIDI Interface with Tape and Drum Sync

Passport's MIDI Interface with Drum Sync provides MIDI In, MIDI Out and Drum Out connections for an Apple IIGS. The Passport MIDI Interface with Tape and Drum Sync has MIDI In, MIDI Out, Drum Out and Tape Sync connections. This card is expanded to permit synchronized recording using conventional multitrack tape recorders.



Passport Designs, Inc.
625 Miramontes St.
Half Moon Bay, CA 94019
415-726-0280

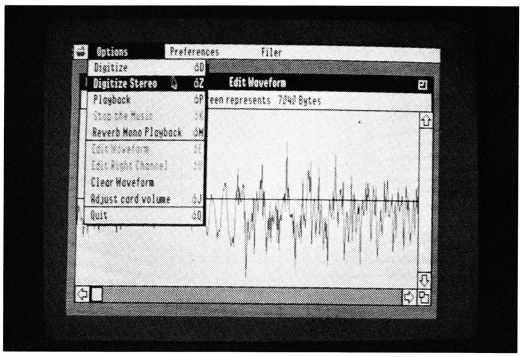
System Requirements
Apple IIGS; any MIDI-equipped synthesizer(s); conventional or MIDI drum machines; any multitrack tape recorder (sync cable is optional) for interface with tape sync; an external synchronizer box and sync cable is optional for interface with drum sync.

Price $129.95 to $199.95

Support
A 90-day warranty and a customer service department are provided.

Uses MIDI
Yes

SuperSonic, SuperSonic Digitizer, Digitizer Professional



SuperSonic is a multichannel digitized stereo card that taps the power of the new Ensoniq sound chip of the IIGS to produce true stereo sounds when used with stereo software. SuperSonic plugs into any slot and can be connected to a high-fidelity stereo, headphones, amplified speakers or even non-amplified speakers. The SuperSonic Digitizer plugs directly into the SuperSonic stereo card expansion connector and inputs audio into the Ensoniq sound chip of the Apple IIGS, which is then digitized and stored in memory. SuperSonic and SuperSonic Digitizer allow users to fully use the power of the Apple IIGS when recording, editing, saving and playing back voices, music and sound waveforms. Digitizer Professional is a two-channel multifunction audio digitizer that allows a user to digitize stereo or other two-channel audio sources simultaneously into the Apple IIGS. It is a complete standalone card, yet remains fully compatible with the Ensoniq sound chip and the SuperSonic stereo card. Software-controlled functions allow for panning and fading effects during digitizing. Sound files can be used in most programming languages, including Pascal, C and Basic. Professional mouse-based sound software includes: on-screen visual editing of sound waveforms; variable sampling and playback rates; special options for fading, panning and reversing; and the saving of files in both Binary and Apple Standard Instrument Format for direct importing into other sound programs.

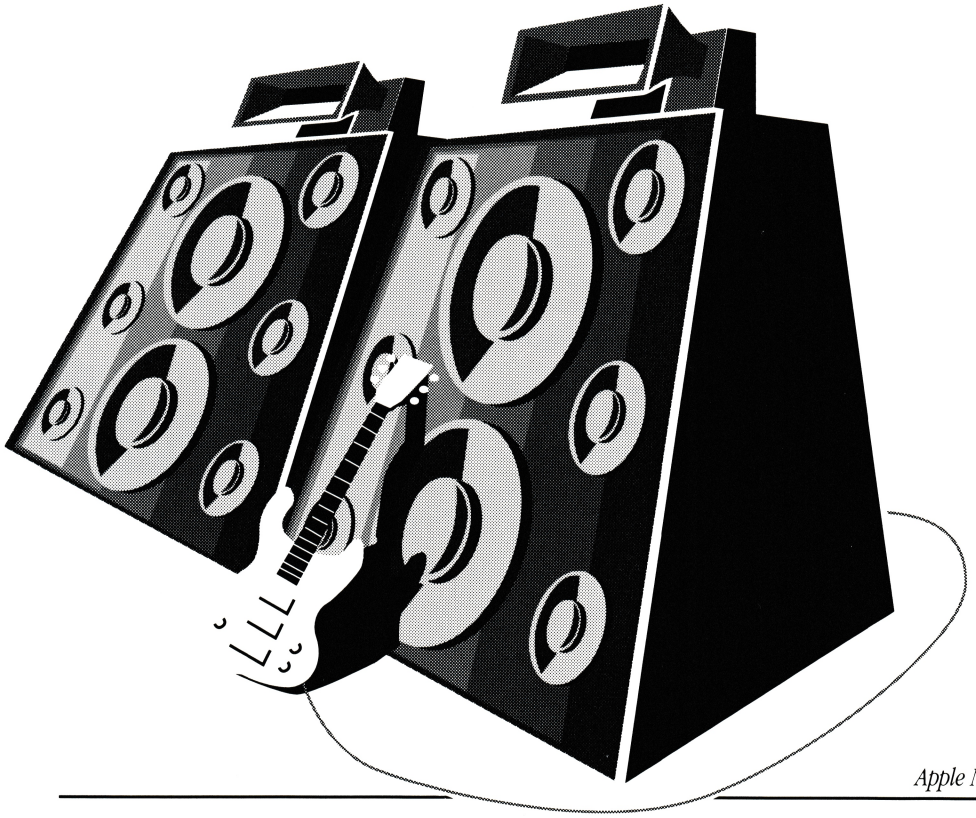
MDIdeas, Inc.
1163 Triton Dr.
Foster City, CA 94404
415-573-0580

System Requirements
Apple IIGS; stereo software; SuperSonic stereo card required for use with SuperSonic Digitizer.

Price $59.95 to $149.95
SuperSonic and SuperSonic Digitizer $59.95 each; Digitizer Professional $149.95.

Support
Product support is available.

Uses MIDI
No



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